XR-7130/7140/7142/7600

SERVICE MANUAL

US Model
XR-7130/7600

Canadian Model
XR-7140/7600

AEP Model
XR-7140

E Model
XR-7140

Germany Model
XR-7142

Photo: XR-7140

Model Name Using Similar Mechanism	XR-7170
Tape Transport Mechanism Type	MG-55C-31

SPECIFICATIONS

Power amplifier section (XR-7140)

Outputs — Speaker outputs (sure seal connectors)
Speaker impedance — 3.2 – 8 ohms
Maximum power output — 20 W × 4 (at 4 ohms)*
*Measured at 14.4 V

Cassette player section

Tape track — 4-track 2-channel stereo
Frequency response — 30 – 18,000 Hz

Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby off
TYPE II, IV	66 dB	76 dB	58 dB
TYPE I	63 dB	73 dB	55 dB

Wow and flutter — 0.1% (WRMS)

Tuner section

FM

Tuning range — 87.5 – 108.0 MHz
Antenna terminal — External antenna connector
Intermediate frequency — 10.7 MHz
Usable sensitivity — 12 dBf (75 ohms)
Selectivity — 75 dB at 400 kHz
Signal-to-noise ratio — 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz — 0.5% (stereo), 0.3% (mono)
Separation — 35 dB at 1 kHz
Frequency response — 30 – 15,000 Hz
Capture ratio — 2 dB

AM

Tuning range — European and other countries
531 – 1,602 kHz
(at 9 kHz step)
Central and South American countries
530 – 1,620 kHz
(at 10 kHz step)
AM tuning interval
9 kHz/10 kHz switchable
Antenna terminal — External antenna connector
Intermediate frequency — 450 kHz
Sensitivity — 35μV

– Continued on next page –

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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FM/AM CASSETTE CAR STEREO

SONY®

MICROFILM

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Loudness	+10 dB at 100 Hz +6 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions (without bracket)	Approx. 178 × 50 × 160 mm (w/h/d), not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 145 mm (w/h/d), not incl. projecting parts and contnrols
Weight	Approx. 1.9 kg
Accessories supplied	Mounting hardware (1 set) XR-7600: Remote controller (1) Aize AA (R6) battery (2)

Design and specifications subject to change without notice.

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Note for Lithium Battery

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions

ADVARSEL !

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverandøren.

ADVARSEL

Lithiumbatteri-Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

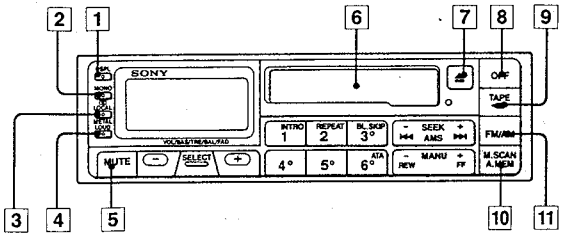
VAROITUS

Paristo voi räjätää, jos se on virheellisesti asennettu Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

This section is extracted from instruction manual.

SECTION 1
GENERAL

Location and Function of Controls



Refer to the pages in ● for details.

1 DSPL (display) button ⓫ ⓭

	During radio reception	During tape playback
2	MONO (monaural) button ⓯	□□ button ⓫
3	LOCAL button ⓯	METAL (metal/CrO_2) button ⓫

4 LOUD (loudness) button
Press to reinforce bass and treble especially when listening at low volume. To disengage the button, press it again.

5 MUTE button
Press to momentaly mute the sound. Press again to restore the same level as before.

SDK button (XR-7142)

6 Cassette insertion door

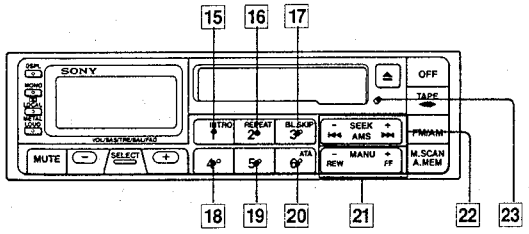
7 ⏏ (eject) button

8 OFF (power off) button

9 TAPE◀I▶(playback/transport direction change) button ⓾

10 M.SCAN (memory scan)/A.MEM (automatic memory) button ⓱ ⓰

11 FM/AM (radio on/band select) button ⓮



	During tape playback	During radio reception
15	INTRO button ⓫	Preset number buttons ⓲
16	REPEAT button ⓫	
17	BL. SKIP (blank skip) button ⓫	
18	—	
19	—	
20	ATA (automatic tuner activation) button ⓲	
21	FF/REW (fast forward/rewind) button ⓰	MANU (manual tuning) button ⓰
22	AMS* button ⓬	SEEK (automatic tuning) button ⓮

23 Reset button
Press this button when you use this unit for the first time and when you have changed the car battery, or when other buttons do not function. The reset button is effective only when the unit is mounted in the bracket.

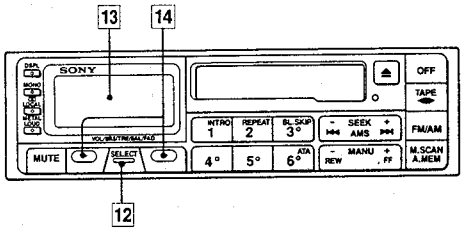
*Automatic Music Sensor

Note
The mute function, intro play, and repeat play will be cancelled when you press the OFF button or when you keep the ignition key set to the off position for more than eight seconds. The blank skip function and the automatic tuner activation will be maintained until you press each button again.

To change illumination colors
Press 1 while pressing the SELECT. Press these buttons again to restore the same color as before.

To mute a beep sound
Press 6 while pressing the SELECT.
To obtain the beep sound again, press these buttons again.

Location and Function of Controls



12 SELECT (control mode select) button
Press to select the desired mode. BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

14 ⊖⊕ (volume/bass/treble/balance/fader control) button
⊖⊕ button normally functions as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode goes back to the volume control mode.

13 Display window

Display window	Control mode	Press ⊖	Press ⊕
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
FAD	Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
VOL	Volume control	For less volume	For more volume

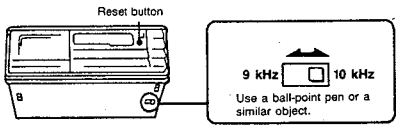
Note on AM Tuning Interval (XR-7140AEP, E Model)

The interval is factory-set to 9 kHz.
If, however, AM frequency allocation might be different from that in the area this car stereo is used, change the AM tuning interval.

9 kHz area	European, Asian, African and Oceanian Countries
10 kHz area	North, Central and South America

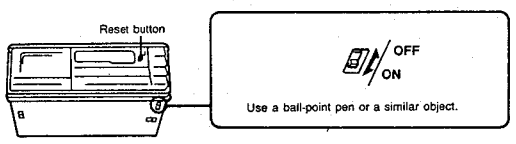
To change the AM tuning interval

1 Remove the main unit from the bracket.
2 Set the AM tuning interval selector at the bottom of the unit to the proper position.
3 Install the main unit to the bracket.
4 Press the reset button after setting the ignition key to the accessory position.



Notes on the Power Select Switch

You can choose illumination mode with the power select switch located on the bottom.



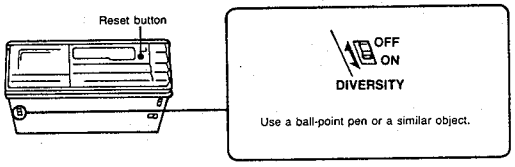
When you set the ignition key to the accessory position

Power select switch	ON	OFF
Illuminate where?	OFF, TAPE, FM/AM, M.SCAN/ A.MEM, ⏏ buttons and the cassette insertion door	No illumination

- When you activate the unit, all parts of the panel illuminate, regardless of the position of the switch.
- If your car has no accessory position, we recommend you to set the switch to the OFF position.
- Be sure to press the reset button after changing the position of the switch.

When a Diversity Antenna is Used —DIVERSITY switch

This unit can be connected with diversity antennas. If you use this unit with the diversity antennas, set the DIVERSITY switch located at the bottom of the unit to the ON position to activate the diversity system.



When you connect only one antenna
If you do not use the diversity system and connect only one antenna, connect the antenna to the MAIN connector of this unit and set the DIVERSITY switch to the OFF position.

Note
Be sure to press the reset button after changing the position of the switch.

Installation/Installation/Instalación/安装

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it should be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Précautions

- Choisir soigneusement l'emplacement de montage pour que l'appareil n'interfère pas avec les fonctions normales de conduite du véhicule.
- Eviter d'installer l'appareil là où il est susceptible de subir une haute température telle que celle de la lumière directe du soleil ou provenant d'un appareil de chauffage ou là où il serait exposé à la poussière ou la saleté ou à une vibration excessive.
- Utiliser uniquement le matériel de montage fourni pour effectuer une installation sûre.

Precauciones

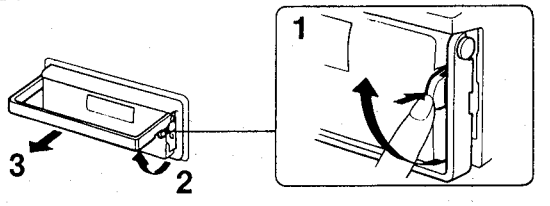
- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera con las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

安装前须知事项

- 安装位置应选在不妨害驾驶者操作之处。
- 不可安装在易受直射阳光照射、暖气排出口等高温之处，或易受灰尘、污秽或震动太大的地方。
- 安装时为保安全起见，请使用附属的安装用工具。

To Remove the Unit
Retrait de l'appareil
Para extraer la unidad
要取下时

When installed with the carrying handle
Lorsque l'appareil est installé avec la poignée de transport
Cuando esté instalada con el asa de transporte
若装着提手



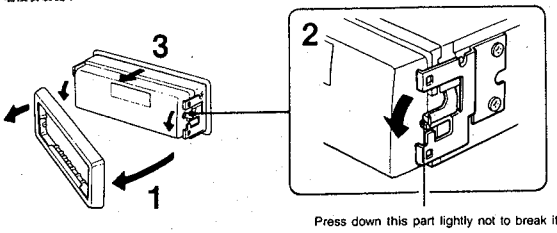
To prevent the unit from being stolen
When you leave your car, remove the unit from the bracket and take it away with you.

Para evitar que le roben la unidad
Cuando salga de su automóvil, extraiga la unidad del soporte y llévela consigo.

Prévention contre le vol
Lorsque l'on quitte la voiture, enlever l'appareil du support et l'amener avec soi.

若要防止汽车收录音机被盗
在下车时可由机套中取下，随身携带。

When installed without the carrying handle
Lorsque l'appareil est installé sans la poignée de transport.
Cuando esté instalada sin el asa de transporte
若没安装提手



Press down this part lightly not to break it.

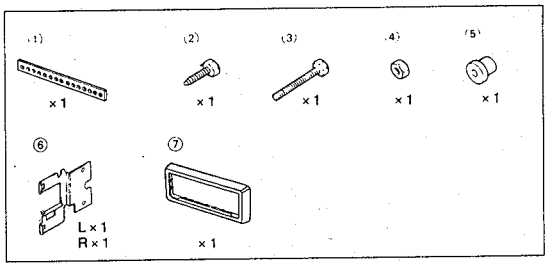
Appuyer légèrement sur cette partie afin de ne pas la briser.

Presione hacia abajo la parte plateada con suavidad para no romperla.

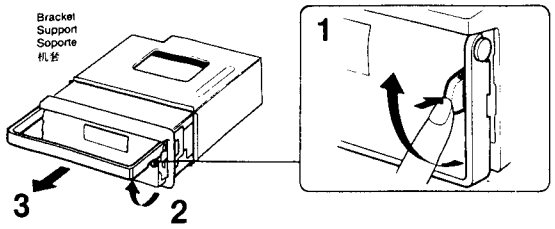
向下稍按银色部分，不可折断。

Supplied Mounting Hardware
Matériel de montage fourni
Ferretería de montaje suministrada
附属的安装工具

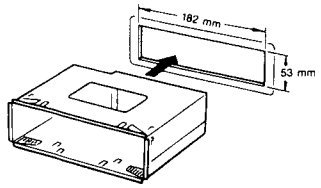
The numbers in the list are keyed to those in the instructions.
Les numéros dans la liste correspondent à ceux se trouvant dans les instructions.
Los números de la lista corresponden a los de las instrucciones
下图工具号码和以下安装说明图中之号码相同。

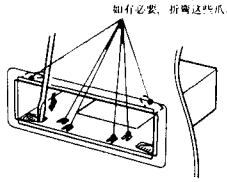


1 Remove the unit from the bracket.
Retirer l'appareil du support.
Extraiga la unidad del soporte.
由机套里依下图所示取出本机。

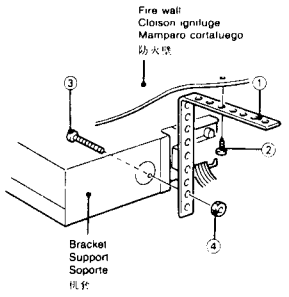


2 Install the bracket in the dashboard.
Installer le support dans le tableau de bord.
Instale el soporte en el salpicadero.
把机套安装在仪表板上。

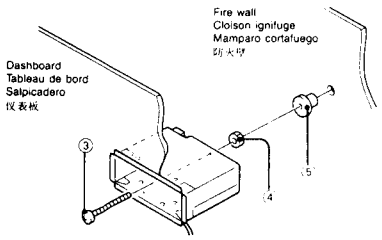




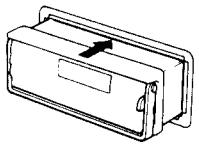
Example 1
Exemple 1
Ejemplo 1
例 1



Example 2
Exemple 2
Ejemplo 2
例 2

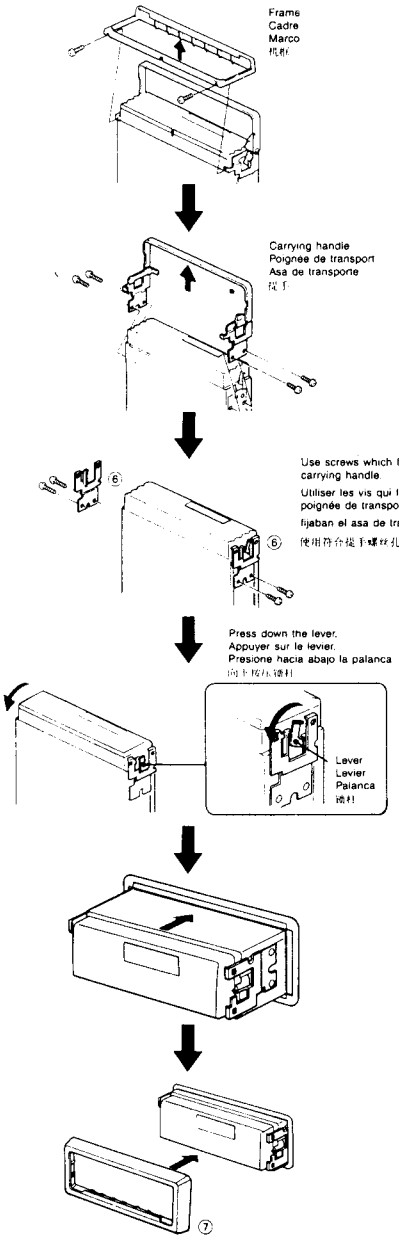


3A When installing the unit with the carrying handle
Installation de l'appareil avec la poignée de transport
Instalación de la unidad con el asa de transporte
安装附有提手的收录机时



Push in the unit until it is locked firmly.
Pousser l'appareil jusqu'à ce qu'il soit bien bloqué.
Empuje la unidad hasta que quede firmemente enganchada.
向内推入直到牢固装入为止。

3B When installing the unit without the carrying handle
Installation de l'appareil sans la poignée de transport
Instalación de la unidad sin el asa de transporte
安装没附提手的收录机时



Connections/Connexions/Conexiones/ 连接

XR-7140

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu uniquement pour un fonctionnement sur courant continu de 12 volts avec mise à la masse négative.
- Avant d'effectuer les connexions, déconnecter la borne de masse de la batterie de voiture pour éviter des courts-circuits.
- Connecter le fil d'entrée d'alimentation **rouge** uniquement une fois tous les autres fils connectés. S'assurer de le connecter à la borne positive 12 volts qui est énergétisée lorsque la clé de contact est mise sur la position accessoire.
- **Amener tous les fils de masse sur un point commun.**

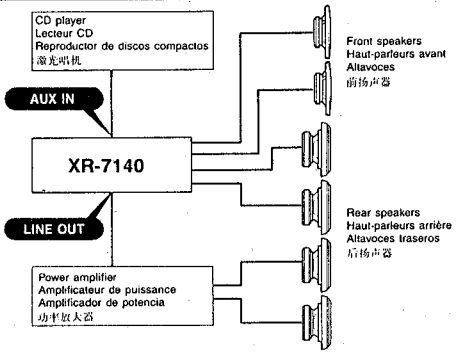
Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V ÇC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación **rojo** desqués de haber conectado los demás. No se olvide de conectarlo al terminal de alimentación de 12 V positivo. Este conductor deberá energizarse al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los terminales de masa a un punto común del automóvil.**

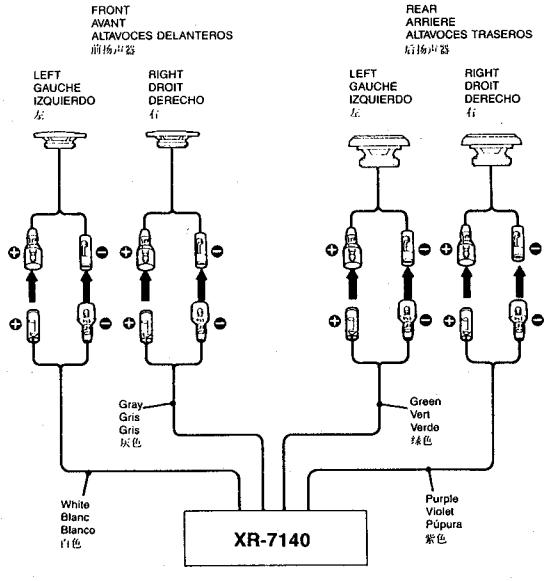
注意

- 本机只可使用负极接地的12V 直流电.
- 连接以前，请先拔下汽车电池接地端以防短路.
- 所有电线连接完毕以后才可连接红色电源线. 电源线必须连接到正极 12V 直流电端子才行. 又，当引擎点火插口被转在附件"accessory"位置时，汽车将处于点火状态，敬请注意.
- **所有接地线请都接至一共同接地点。**

System Connection — Connexion du système — Conexión del sistema — 组件之连接



Speaker Connection — Connexion des haut-parleurs — Conexion de los altavoces — 与扬声器之连接



Notes on speaker connection

- Use speakers with an impedance of 3.2 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Remarques sur les connexions des haut-parleurs

- Utiliser des haut-parleurs d'une impédance de 3,2 à 8 ohms, et d'une capacité de puissance suffisante; faute de quoi, les haut-parleurs peuvent être endommagés.
- Ne pas raccorder les bornes des haut-parleurs au châssis du véhicule et ne pas raccorder les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne pas essayer de raccorder les haut-parleurs en parallèle.

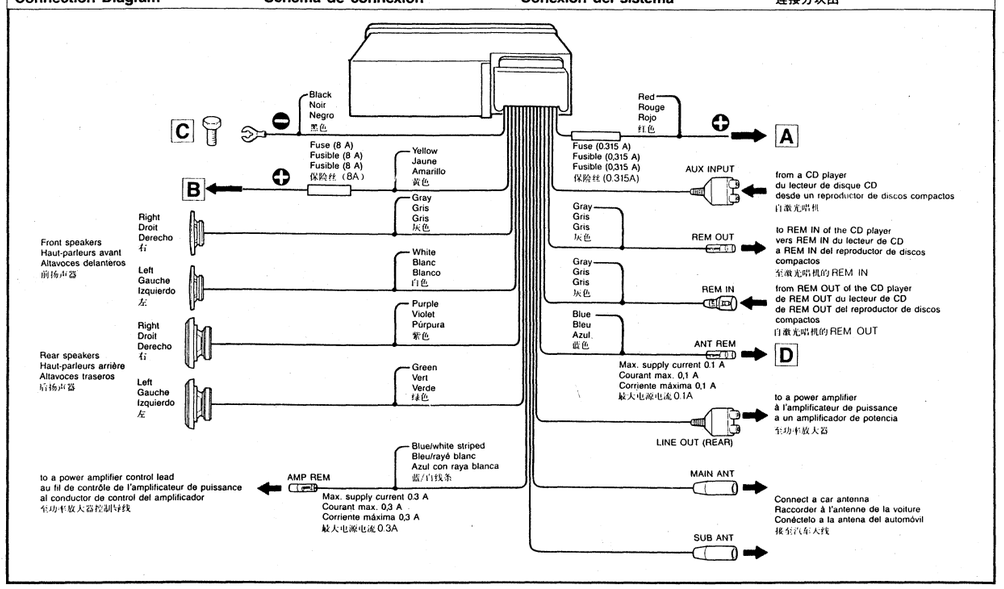
Notas sobre las conexiones de los altavoces

- Use los altavoces con una impedancia de 3,2 a 8 ohmios y con la capacidad de potencia admisible adecuada. De otra maneram, podrían dañarse los altavoces.
- No conecte los terminales del sistema de altavoces al chasis del automóvil, ni conecte los terminales del altavoz derecho a los del izquierdo.
- No intente conectar los altavoces en paralelo.

连接扬声器时须知事项

- 请使用 3.2 至 8Ω 阻抗及适当操作电容量的扬声器，否则，扬声器易受损坏.
- 不可把扬声器端子连接于汽车的车架，也不可把右、右两扬声器的端子相连接.
- 不可并联连接各扬声器.

Connection Diagram / Schéma de connexion / Conexión del sistema / 连接方块图



A to the +12 V power terminal which is energized in the accessory position of the ignition key

B to the +12 V power terminal which is energized at all times

C to a metal part of the car

D to a power antenna relay control box

Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or the ATA* function is activated. A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.
- When the power antenna control lead or the power amplifier control lead is in contact with a metal part of the car, the unit cannot be turned on because the protection circuit is activated.

* Automatic Tuner Activation

After completing the connections and mounting the unit into the bracket, press the reset button of this unit. The reset button is effective only when the unit is mounted in the bracket.

Note on the power select switch

You can change illumination mode with the power select switch located on the bottom of the unit. The switch is factory-set to the ON position.
If your car has no accessory position, set the switch to the OFF position with a ball-point pen or similar objects. After changing position of the power select switch and mounting the unit into the bracket, be sure to press the reset button. For details about the illumination mode, refer to the operating instructions (page ⑨).

Note on AM tuning interval

The AM tuning interval is factory-set to 9 kHz. **If the frequency allocation system of your country is based on 10 kHz, set the selector on the bottom to the 10 kHz position.**
After changing the position of the selector and mounting the unit into the bracket, be sure to press the reset button. For details, refer to the operating instructions (page ⑨).

Note on the antenna connector

If you use a diversity antenna, connect it to **both the MAIN ANT and SUB ANT connectors.** If you do not use it and you connect an antenna with only one connector, be sure to connect the antenna to **the MAIN ANT connector.**

Note on the DIVERSITY switch

If you connect the diversity antenna, set the DIVERSITY switch located at the bottom to the ON position to activate the diversity reception system of the unit. **If you do not connect it and you use an antenna with only one connector, set the switch to the OFF position.** After changing the position of the switch and mounting the unit into the bracket, be sure to press the reset button. Also refer to the operating instructions (page ⑨).

A A la borne d'alimentation positive 12 volts qui est énergétisée lorsque la clé de contact est sur la position accessoire.

B A la borne d'alimentation positive 12 volts qui est énergétisée en permanence

C A un point métallique de la voiture

D Au boîtier de contrôle de relais d'antenne motorisée

Remarques sur les fils de contrôle

- **Le fil de contrôle de l'antenne motorisée (bleu)** fournit une alimentation de courant continu positif de 12 volts lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou le fil de contrôle de l'amplificateur de puissance est en contact avec une partie métallique de la voiture, l'appareil ne peut être mis sous tension puisque le circuit de protection est alors activé.

* Automatic Tuner Activation (enclenchement automatique du tuner)

Après avoir terminé les connexions et le montage de l'appareil dans le support, appuyer sur la touche de réinitialisation. Cette touche est opérationnelle uniquement lorsque l'appareil est installé dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du sélecteur est, situé sur le socle, qui préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un stylo-bille ou d'un objet similaire. Si la position de ce sélecteur a été modifiée, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page ⑨).

Remarque au sujet de l'intervalle d'accord AM

L'intervalle d'accord AM est préréglé en usine sur 9 kHz. **Si le système d'attribution de fréquence de votre pays est basé sur 10 kHz, mettre le sélecteur situé sur le socle sur la position de 10 kHz.**
Après avoir modifié la position du sélecteur et installé l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Pour plus de détails, se reporter au mode d'emploi (page ⑨).

Remarque au sujet du connecteur d'antenne

Si une antenne diversité est utilisée, **raccorder aux deux connecteurs MAIN ANT et SUB ANT.** Si elle n'est pas utilisée et si une seule antenne est connectée, vérifier que celle-ci soit bien branchée **sur MAIN ANT.**

Remarque sur le commutateur DIVERSITY

Si l'antenne diversité est raccordée, mettre les commutateur DIVERSITY situé sur le socle sur la position ON pour actionner le système de réception en diversité de l'appareil. **Si l'antenne n'est pas connectée et si une antenne est utilisée avec un seul connecteur, mettre sur la position OFF.** Après avoir changé de position du commutateur et installé l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Se reporter au mode d'emploi (page ⑨).

A al terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios

B al terminal de alimentación de +12 V que esté permanentemente enrgizado

C a una parte metálica del automóvil

D al conductor de la caja de control del relé de antena motorizada

Notas sobre los conductores de control

- El conductor de control de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando se active la función de ATA*. Con esta unidad podrá emplearse una antena motorizada sin caja de relés. Con respecto a los detalles sobre la antena motorizada, consulte el manual de instrucciones de la misma.
- Si el conductor de control de la antena motorizada o el de control del amplificador de potencia entra en contacto con una parte metálica del automóvil, no será posible activar la unidad debido a la acción de un circuito protector.

* Activación automática del sintonizador

Después de finalizar las conexiones y el montaje de la unidad en el soporte, presione la tecla de reposición. La tecla de reposición solamente será efectiva cuando la unidad esté montada en el soporte.

Notas sobre el selector de alimentación

Usted podrá elegir el modo de iluminación cambinado el selector de alimentación cambinado el selector de alimentación situado en la parte inferior de la unidad. El selector ha sido puesto en fábrica en la posición ON.
Si su automóvil no posee posición para accesorios, que ponga el selector en la posición OFF con un bolígalo u otro objeto similar. Después de cambiar la posición del selector de alimentación, y de montar la unidad en el soporte, cerciórese de presionar la tecla dereposición. Con respecto al los detalles sobre el modo de iluminición, consulte el manual de instrucciones (página ⑨).

Nota sobre el intervalo de sintonía de AM

El intervalo de sintonía de AM ha sido ajustado en fábrica a 9 kHz. **Si el sistema de asignación de frecuencias de su país se basa en 10 kHz, ponga el selector del panel inferior en la posición 10 kHz.** Después de haber cambiado la posición del selector y de haber montado la unidad en el soporte, cerciórese de presionar el botón de reposición. Con respecto a los detalles, consulte el manual de instrucciones (página ⑨)

Nota sobre el conector de antena

Si emplea una antena para diversidad, **conecte tanto el conector MAIN ANT como el SUB ANT.** Si solamente desea conectar una antena a un conector, cerciórese de emplear **el conector MAIN ANT.**

Nota sobre el interruptor DIVERSITY

Si conecta la antena para diversidad, ponga el interruptor DIVERSITY situado en el panel inferior en la posición ON a fin de activar el sistema de recepción en diversidad. **Si solamente desea conectar una antena a un conector, ponga el interruptor en la posición OFF.** Después de haber cambiado la posición del interruptor y de haber montado la unidad en el soporte, cerciórese de presionar el botón de reposición. Consulte, además, el manual de instrucciones (página ⑨).

XR-7130

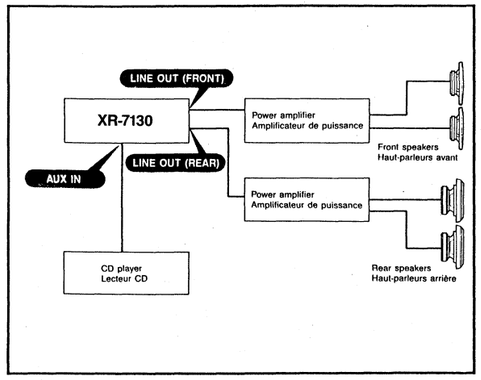
Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

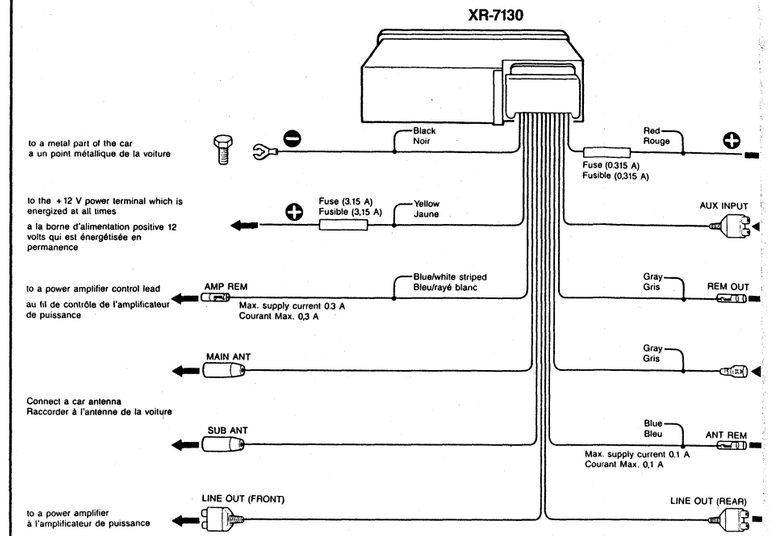
Attention

- Cet appareil est conçu uniquement pour un fonctionnement sur courant continu de 12 volts avec mise à la masse négative.
- Avant d'effectuer les connexions, déconnecter la borne de masse de la batterie de voiture pour éviter des courts-circuits.
- Connecter le fil d'entrée d'alimentation **rouge** uniquement une fois tous les autres fils connectés. S'assurer de le connecter à la borne positive 12 volts qui est énergétisée lorsque la clé de contact est mise sur la position accessoire.
- **Amener tous les fils de masse sur un point commun.**

System Connection / Connexion du système



Connection Diagram / Schéma de connexion



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or the ATA* function is activated. A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.
- When the power antenna control lead or the power amplifier control lead is in contact with a metal part of the car, the unit cannot be turned on because the protection circuit is activated.

* Automatic Tuner Activation

After completing the connections and mounting the unit into the bracket, press the reset button of this unit. The reset button is effective only when the unit is mounted in the bracket.

Note on the power select switch

You can change illumination mode with the power select switch located on the bottom of the unit. The switch is factory-set to the ON position.
If your car has no accessory position, set the switch to the OFF position with a pencil or similar objects. After changing position of the power select switch and mounting the unit into the bracket, be sure to press the reset button. For details about the illumination mode, refer to the operating instructions (page ⑨).

Note on the antenna connector

If you use a diversity antenna, connect it to **both the MAIN ANT and SUB ANT connectors.** If you do not use it and you connect an antenna with only one connector, be sure to connect the antenna to **the MAIN ANT connector.**

Note on the DIVERSITY switch

If you connect the diversity antenna, set the DIVERSITY switch located at the bottom to the ON position to activate the diversity reception system of the unit. **If you do not connect it and you use an antenna with only one connector, set the switch to the OFF position.** After changing the position of the switch and mounting the unit into the bracket, be sure to press the reset button. Also refer to the operating instructions (page ⑨).

控制导线

- 在调谐机自动开机（即 ATA* 功能）状态下或接通调谐机电源时，功率天线控制导线（蓝色）将供给 12V 直流电。若没附延迟箱的功率天线本机便不能使用
- 功率天线的详细使用法请参看该使用说明书。
- 功率天线控制导线或功率放大器控制导线若触及汽车金属部分，则本机保护电路开始工作使本机无法接通电源。

* 即自动调谐机开机功能之意。

电线连接完毕，本机装入机套以后，请按压本机重整按钮。请注意，重整按钮只有在本机装入机套以后才能使用。

功率选择开关

以本机机成的功率选择开关，您可改变照明方式。本开关在本机出厂以前已被设定于 "ON" 之处。若您的汽车没附有附件 "accessory" 位置，则请以铅笔等物把开关位置调整在 "OFF"。功率选择开关位置调整完毕，装回机套以后，切记填先按压重整按钮。有关照明方式的详细情形，请参看本机操作说明书（第 74 页）。

留意 AM 调谐区间

AM 调谐区间的工厂设定为 9kHz。如果贵国的频段分配是以 10kHz 为基准，请将位于机器底部的选择开关拨到 10kHz 的位置上。当转变完毕选择开关的位置，并将机器安装入托架之后，须记住一定要按一下重调按钮。

详细说明，请参考使用说明书（第 74 页）。

留意天线插孔

如果是利用分集式天线，须把它连接到 MAIN ANT（主天线）和 SUB ANT（辅助天线）两插孔。如果不用分集式天线而只利用一根天线连接到一个插孔时，请一定要把天线接到 MAIN ANT 插孔。

留意分集开关

要连接分集式天线使用时，请把位于机器底部的分集开关推到 ON（接通）的位置，以使使机器的分集接收系统发生作用。如果不接用分集接收系统而只连接一个天线到一个插孔时，请把开关推到 OFF（断开）的位置。每当转变完毕开关的开或闭的位置，并将机器装入托架之后，须记住要按一下重调按钮。

详细说明，请参考使用说明书（第 75 页）。

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne motorisée (bleu) fournit une alimentation de courant continu positif de 12 volts lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou le fil de contrôle de l'amplificateur de puissance est en contact avec une partie métallique de la voiture, l'appareil ne peut être mis sous tension puisque le circuit de protection est alors activé.

* Automatic Tuner Activation (enclenchement automatique du tuner)

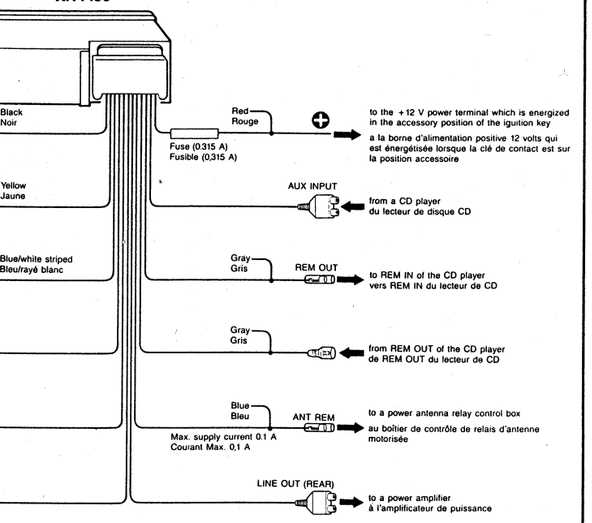
Après avoir terminé les connexions et le montage de l'appareil dans le support, appuyer sur la touche de réinitialisation. Cette touche est opérationnelle uniquement lorsque l'appareil est installé dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du sélecteur est, situé sur le socle, qui préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un crayon ou d'un objet similaire. Si la position de ce sélecteur a été modifiée, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page ⑨).

Schéma de connexion

XR-7130


Black
Noir
Yellow
Jaune
Blue/white striped
Bleu/rayé blanc
Red
Rouge
Fuse (0.315 A)
Fusible (0,315 A)
to the +12 V power terminal which is energized in the accessory position of the igution key
a la borne d'alimentation positive 12 volts qui est énergétisée lorsque la clé de contact est sur la position accessoire
AUX INPUT
from a CD player
du lecteur de disque CD
Gray
Gris
REM OUT
to REM IN of the CD player
vers REM IN du lecteur de CD
Gray
Gris
from REM OUT of the CD player
de REM OUT du lecteur de CD
Blue
Bleu
ANT REM
to a power antenna relay control box
au boîtier de contrôle de relais d'antenne motorisée
Max. supply current 0.1 A
Courant Max. 0,1 A
LINE OUT (REAR)
to a power amplifier
à l'amplificateur de puissance

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne motorisée (bleu) fournit une alimentation de courant continu positif de 12 volts lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou le fil de contrôle de l'amplificateur de puissance est en contact avec une partie métallique de la voiture, l'appareil ne peut être mis sous tension puisque le circuit de protection est alors activé.

* Automatic Tuner Activation (enclenchement automatique du tuner)

Après avoir terminé les connexions et le montage de l'appareil dans le support, appuyer sur la touche de réinitialisation. Cette touche est opérationnelle uniquement lorsque l'appareil est installé dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du sélecteur est, sintué sur le socle, qui préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un crayon ou d'un objet similaire. Si la position de ce sélecteur a été modifiée, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page ●).

Remarque au sujet du connecteur d'antenne

Si une antenne diversité est utilisée, **raccorder aux deux connecteurs MAIN ANT et SUB ANT.** Si elle n'est pas utilisée et si une seule anenne est connectée, vérifier que celle-ci soit bien branchée **sur MAIN ANT.**

Remarque sur le commutateur DIVERSITY

Si l'antenne diversité est raccordée, mettre les commutateur DIVERSITY situé sur le socle sur la position ON pour actionner le système de réception en diversité de l'appareil. **S'il n'est pas connecté et si une antenne est utilisée avec un seul connecteur, mettre sur la position OFF.** Après avoir changé de position du commutateur et installé l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Se reporter au mode d'emploi (page ●).

XR-7600

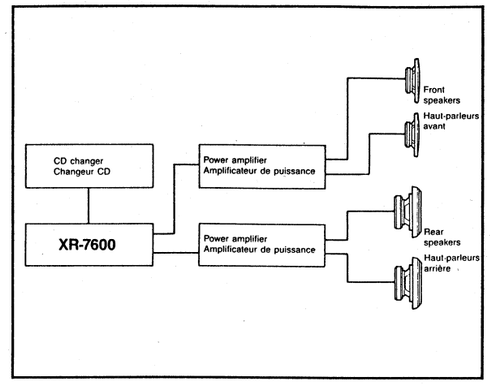
Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal. It will be energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Attention

- Cet appareil est conçu uniquement pour un fonctionnement sur courant continu de 12 volts avec mise à la masse négative.
- Avant d'effectuer les connexions, déconnecter la borne de masse de la batterie de voiture pour éviter des courts-circuits.
- Connecter le fil d'entrée d'alimentation **rouge** uniquement une fois tous les autres fils connectés. S'assurer de le connecter à la borne positive 12 volts qui est énergétisée lorsque la clé de contact est mise sur la position accessoire.
- **Amener tous les fils de masse sur un point commun.**

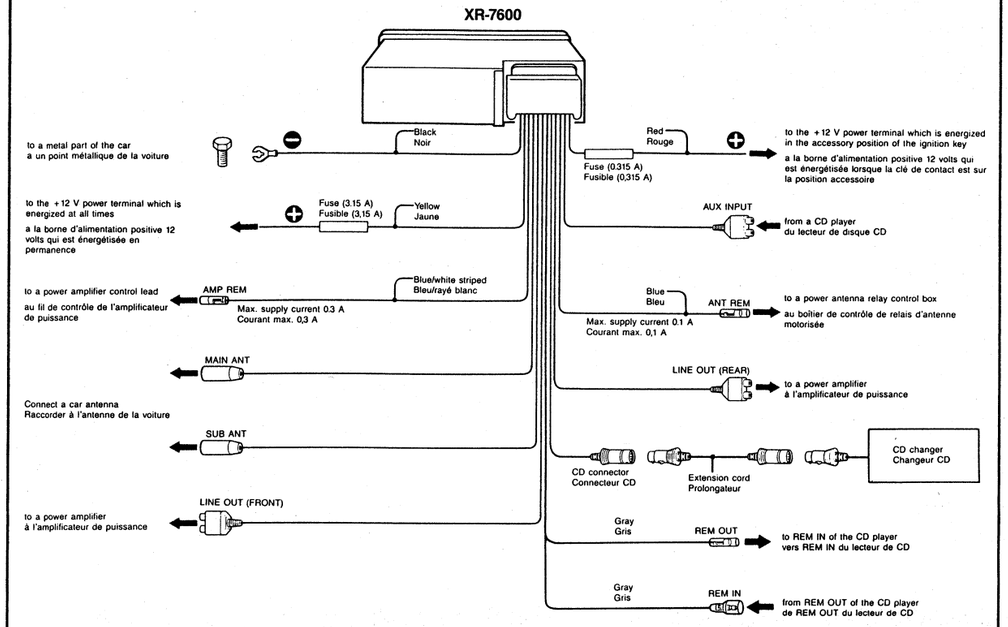
System Connection



Connexion du système

Connection Diagram

Schéma de connexion


XR-7600
to a metal part of the car
a un point métallique de la voiture
Black
Noir
Red
Rouge
Fuse (0.315 A)
Fusible (0,315 A)
to the +12 V power terminal which is energized in the accessory position of the ignition key
a la borne d'alimentation positive 12 volts qui est énergétisée lorsque la clé de contact est sur la position accessoire
to the +12 V power terminal which is energized at all times
a la borne d'alimentation positive 12 volts qui est énergétisée en permanence
Fuse (3.15 A)
Fusible (3,15 A)
Yellow
Jaune
AUX INPUT
from a CD player
du lecteur de disque CD
to a power amplifier control lead
au fil de contrôle de l'amplificateur de puissance
AMP REM
Max. supply current 0.3 A
Courant max. 0,3 A
Blue/white striped
Bleu/rayé blanc
Blue
Bleu
ANT REM
to a power antenna relay control box
au boîtier de contrôle de relais d'antenne motorisée
Max. supply current 0.1 A
Courant max. 0,1 A
MAIN ANT
LINE OUT (REAR)
to a power amplifier
à l'amplificateur de puissance
Connect a car antenna
Raccorder à l'antenne de la voiture
SUB ANT
CD connector
Connecteur CD
Extension cord
Prolongateur
CD changer
Changeur CD
LINE OUT (FRONT)
to a power amplifier
à l'amplificateur de puissance
Gray
Gris
REM OUT
to REM IN of the CD player
vers REM IN du lecteur de CD
Gray
Gris
REM IN
from REM OUT of the CD player
de REM OUT du lecteur de CD

Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or the ATA* function is activated. A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to the power antenna instruction manual.
- When the power antenna control lead or the power amplifier control lead is in contact with a metal part of the car, the unit cannot be turned on because the protection circuit is activated.

* Automatic Tuner Activation

After completing the connections and mounting the unit into the bracket, press the reset button of this unit. The reset button is effective only when the unit is mounted in the bracket.

Note on the power select switch

You can change illumination mode with the power select switch located on the bottom of the unit. The switch is factory-set to the ON position.
If your car has no accessory position, set the switch to the OFF position with a pencil or similar objects. After changing position of the power select switch and mounting the unit into the bracket, be sure to press the reset button. For details about the illumination mode, refer to the operating instructions (page ●).

Note on the antenna connector

If you use a diversity antenna, connect it to **both the MAIN ANT and SUB ANT connectors.** If you do not use it and you connect an antenna with only one connector, be sure to connect the antenna to **the MAIN ANT connector.**

Note on the DIVERSITY switch

If you connect the diversity antenna, set the DIVERSITY switch located at the bottom to the ON position to activate the diversity reception system of the unit. **If you do not connect it and you use an antenna with only one connector, set the switch to the OFF position.** After changing the position of the switch and mounting the unit into the bracket, be sure to press the reset button. Also refer to the operating instructions (page ●).

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne motorisée (bleu) fournit une alimentation de courant continu positif de 12 volts lorsque le tuner est mis sous tension ou la fonction ATA* est activée. Une antenne motorisée sans boîtier de relais ne peut être utilisée avec cet appareil. Pour plus de détails sur l'antenne motorisée, se reporter à son mode d'emploi.
- Lorsque le fil de contrôle de l'antenne motorisée ou le fil de contrôle de l'amplificateur de puissance est en contact avec une partie métallique de la voiture, l'appareil ne peut être mis sous tension puisque le circuit de protection est alors activé.

* Automatic Tuner Activation (enclenchement automatique du tuner)

Après avoir terminé les connexions et le montage de l'appareil dans le support, appuyer sur la touche de réinitialisation. Cette touche est opérationnelle uniquement lorsque l'appareil est installé dans le support.

Remarque sur le sélecteur d'alimentation

Il est possible de changer de mode d'illumination en se servant du sélecteur est, sintué sur le socle, qui préréglé à l'usine sur la position ON. **Si la voiture n'est pas munie de la position accessoire, régler le sélecteur sur la position OFF** à l'aide d'un crayon ou d'un objet similaire. Si la position de ce sélecteur a été modifiée, ne pas oublier d'appuyer sur la touche de réinitialisation après le montage de l'appareil dans le support. Pour plus de détails sur le mode d'illumination, se reporter au mode d'emploi (page ●).

Remarque au sujet du connecteur d'antenne

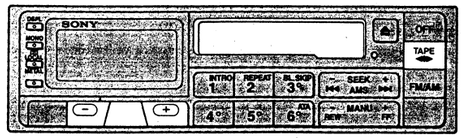
Si une antenne diversité est utilisée, **raccorder aux deux connecteurs MAIN ANT et SUB ANT.** Si elle n'est pas utilisée et si une seule antenne est connectée, vérifier que celle-ci soit bien branchée **sur MAIN ANT.**

Remarque sur le commutateur DIVERSITY

Si l'antenne diversité est raccordée, mettre les commutateur DIVERSITY situé sur le socle sur la position ON pour actionner le système de réception en diversité de l'appareil. **S'il n'est pas connecté et si une antenne est utilisée avec un seul connecteur, mettre sur la position OFF.** Après avoir changé de position du commutateur et installé l'appareil dans le support, ne pas oublier d'appuyer sur la touche de réinitialisation. Se reporter au mode d'emploi (page ●).

Cassette deck operation

Tape Playback



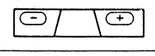
1

Insert a cassette to start playback.

TAPE ◁II▷

Press the TAPE button when a cassette is already inserted.

2



Press to adjust the volume.

Other Operations

To rewind or fast-forward the tape	– MANU + REW FF (rewind) (fast-forward)
To listen to the other side of the cassette	TAPE ◁II▷
To take out the cassette	⏏
To stop the tape and listen to the radio	FM/AM

To play back the tape again	TAPE ◁II▷
To stop the tape and turn off the unit	OFF
To play the connected auxiliary source	Start playing the connected source. "AUX" appears on the display window.

Side of the cassette being played back

This unit plays back both sides of the cassette repeatedly. The indicator in the display window shows which side of the cassette is being played back.

Indicator	Side
▶	The side facing upward
◁	The side facing downward

Listening to the CrO_2 (TYPE II) or Metal (TYPE IV) Tapes

Press LOCAL / METAL.

MTL appears in the display window.
To listen to the normal (TYPE I) tapes, press it again.

Listening to Dolby NR-processed Tapes

Press MONO / ▯▯.

Press to activate the B-type or C-type Dolby NR system. Select the same Dolby NR system used for the recorded cassette.
The Dolby NR (Noise Reduction) system reduces tape hiss noise in low-level, high-frequency signals.

Listening to the First Portions of Selections in Order (Intro scan)

Press INTRO 1. (during tape playback)

The first ten seconds of each selection will be played back in order from the next selection. Press again to release this function.

Repeating the Selection Being Played (Repeat play)

Press REPEAT 2.

The unit goes back to the beginning of the selection when the selection ends. Press again to release this function.

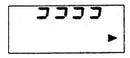
Skipping the Long Blank (Blank skip function)

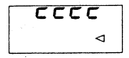
Press BL.SKIP 3°.

The unit skips the long blank (more than eight seconds) automatically and plays back the next selection. Press again to release this function.

To display the tape running indicator

Press DSPL. The running indicator appears in the display window. To restore the normal indication, Press it again.





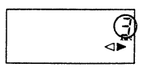
Tape Playback

Locating the Beginning of a Desired Selection During Playback (AMS function)

During tape playback

Press – SEEK + ⏮ AMS ⏭ as many times as the number of selections you want to skip.
Up to 9 selections can be skipped.

To locate a selection ahead	Press + SEEK AMS ⏭.
To locate a previous selection	Press – SEEK AMS ⏮.



The number in the display window shows how many selections will be skipped.

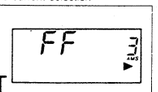
Examples

• When you want to listen to the third selection ahead from the current selection

Press + SEEK AMS ⏭ three times.

AMS is activated — Playback starts

Current selection	1st. selection	2nd. selection	3rd. selection

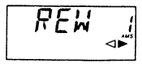


• To locate the beginning of the current selection

Press – SEEK AMS ⏮ once.

Playback starts — AMS is activated

Current selection	Next selection



To Turn on the Radio Automatically While Fast-winding the Tape (ATA function)

Press ATA 6°.

The tuner turns on automatically when you press the REW or FF during tape playback. When you resume the tape playback, the tuner turns off automatically.

Notes on AMS function

The desired selection may not be located if:

— there is noise in the space between selections.
— the space is less than 4 seconds long.
— the ⏭ or ⏮ button is pressed immediately before or after the desired selection, or within the blank space.

Playback may begin in the middle of the selection

When AMS is activated, as the followings are treated as blanks:

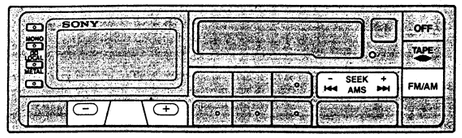
— a long pause in the selection
— a passage of low frequencies or very low volume
— gradual increase or decrease of volume, as in some classical music

To display the frequency indication while the ATA is operating

Press DSPL. The display window shows the frequency which you tuned in last time. In this case, all the tuner operation buttons function in the same way as when you turn on the tuner (except for the FM/AM button).

Radio reception

Automatic Tuning



1

FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at the same time.

2

– SEEK + ⏮ AMS ⏭

Press to start scanning.

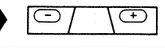
– SEEK AMS ⏮ For lower frequencies

+ SEEK AMS ⏭ For higher frequencies

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

3



Press to adjust the volume.

FM has three bands (FM1, FM2, FM3). Three bands cover the same frequency range. To change the band, press FM/AM button.

Other Operations

To stop the radio and start tape playback

When no cassette is inserted	To stop the radio and turn off the unit → OFF
When a cassette is already inserted	TAPE ◁II▷

When there are too many stations and the scanning stops too frequently during automatic tuning

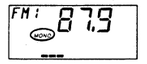
Press LOCAL / METAL.

Only the stations with relatively strong signals can be tuned in.

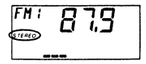
When the FM stereo program is too weak and noisy

Press MONO / ▯▯.

The noise will be reduced.
The sound will be monaural instead.



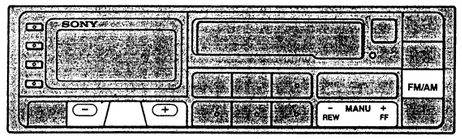
When the FM stereo program of sufficient signal strength is tuned in



The program is automatically received in stereo.

Radio reception

Manual Tuning



1

FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at the same time.

2

– MANU + REW FF

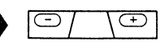
Press to select the desired station.

– MANU REW ⏮ For lower frequencies

+ MANU FF ⏭ For higher frequencies

To change the frequency rapidly, keep the button pressed.

3



Press to adjust the volume.

Warning

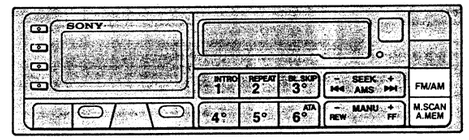
While driving, keep your eyes on the road and use the automatic tuning or the memory preset tuning!

Radio reception

Memory Preset Tuning

The unit can memorize a total of 24 stations, one on each preset button and 6 stations for each band.

Memorizing the Stations Automatically (Automatic Memory Function)



1

FM/AM

Press to select the desired band, FM1, FM2, FM3 or AM.

The tuner turns on at same time.

2

M.SCAN A.MEM

Press for more than two seconds.

The unit starts scanning the selected band and memorizes the tuned stations on the preset number button 1 through 6 automatically.

In what way are stations scanned and memorized?

The unit scans the selected band twice. The scanning starts from the displayed frequency. During the first cycle, the unit scans stations with considerably strong signals. During the next cycle, the unit scans stations that can be received, including weak ones. And for memorizing, if any preset number is indicated in the display window, memorizing starts from this preset number. When you choose FM2 and the preset number 3 is displayed in the window, for example, memorizing starts from the preset number 3 on FM2, and stops at the preset number 6 on FM 3.

Memory Preset Tuning

Surveying What is Being Broadcasted on the Preset Stations

Press [M.SCAN A.MEM] lightly.

Each memorized station will be scanned for five seconds in order. (When the broadcast of the memorized station is too weak, it cannot be received.)

Note

Be sure to press it lightly. If you keep it pressed for more than two seconds, the Automatic Memory Function (A.MEM) will be activated and new stations will be memorized on the preset buttons.

Memorizing Only the Desired Stations Manually

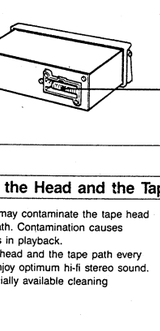
Example: To memorize on the preset number 1

1 [FM/AM] — **Press to select the desired band.**

2 [– SEEK AMS +] or [– MANU + REW FF] — **Press to tune in the desired station.**

3 [INTRO 1] — **Press for more than two seconds.**

The number of the pressed preset number button will be displayed. MEM indicator appears to show that the station has been memorized. (MEM indicator will disappear in a few seconds.)



Repeat these steps for each preset button.

Important

Every preset number button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

To Receive the Preset Station

1 [FM/AM] — **Press to select the desired band.**

2 [INTRO 1] – [ATA 6°] — **Press lightly to receive the desired station.**

Maintenance

Fuse Replacement

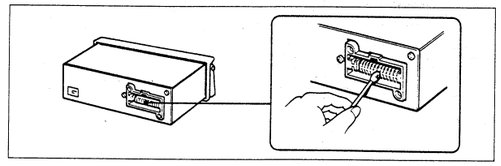
If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning

Use the specified ampere fuse.
Use of a higher amperage fuse may cause serious damage.

Cleaning the Connector

To keep the best possible sound quality, clean the metallic part of the connector at the rear of the unit periodically using a commercially available head cleaning fluid or rubbing alcohol and a cotton swab.



Cleaning the Head and the Tape Path

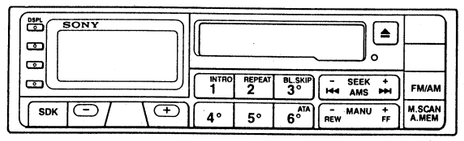
Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback.
Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

Radio reception

Receiving Traffic Information Stations

XR-7142

Searching for a Traffic Information Station



1 [FM/AM] — **Press to select the desired band, FM 1, FM 2 or FM 3.**

The tuner turns on at the same time.

2 [SDK] — **When the traffic information station is not being tuned in, press to start searching for a traffic information station.**

SDK indicator will appear on the display window.
When a station is tuned in, searching will stop, and SK indicator and the area code will appear.

While receiving a traffic information program

SDK indicator blinks. While the indicator is blinking, the unit ignores the pressing on SEEK (+ or –), MANU (+ or –) and preset buttons.

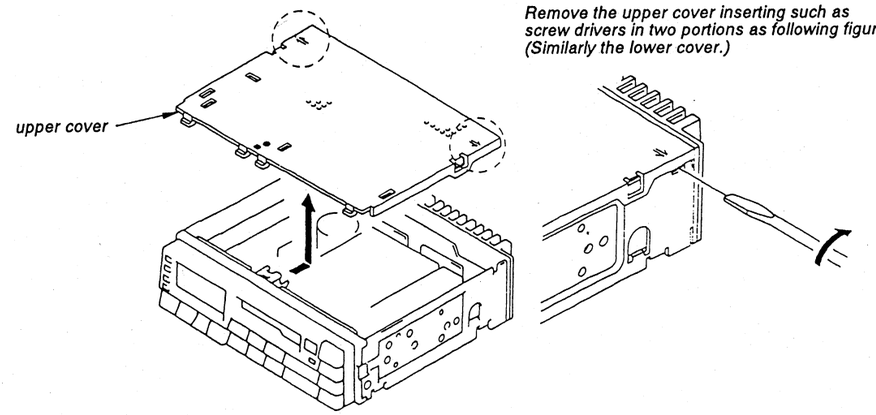
To search for another traffic information station

Press SEEK (+ or –) while SDK indicator is displayed. The unit scans for a traffic information station and stops when a station is tuned in.

SECTION 2
DISASSEMBLY

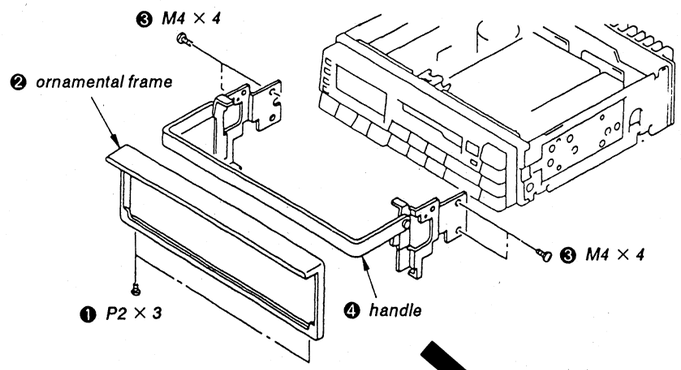
Note: Follow the disassembly procedure in the numerical order given.

UPPER COVER

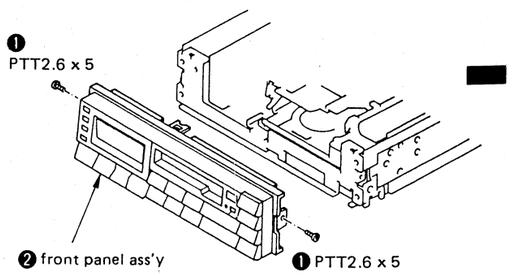


Remove the upper cover inserting such as screw drivers in two portions as following figure. (Similarly the lower cover.)

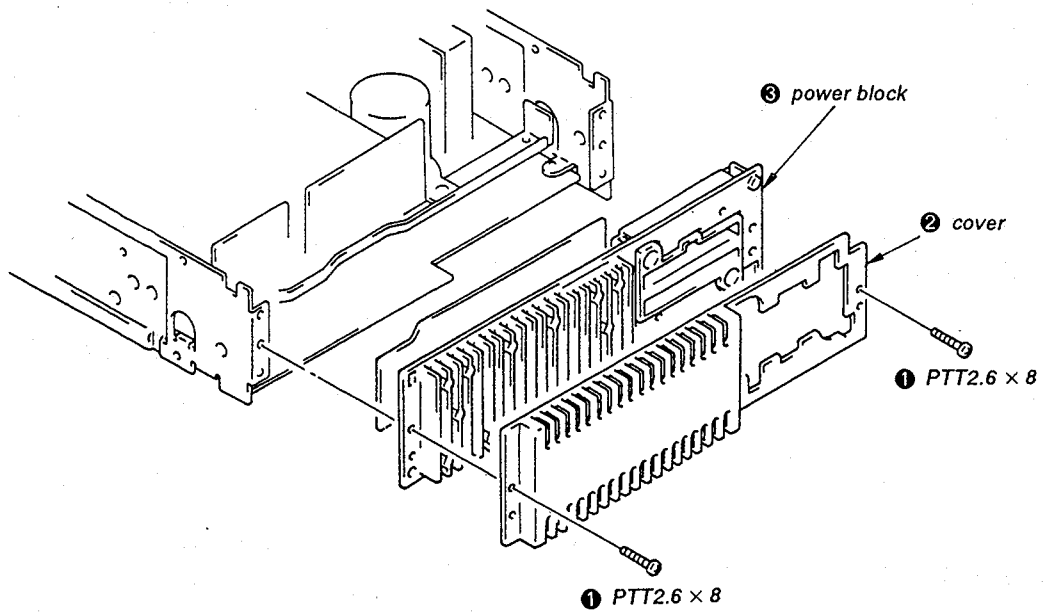
HANDLE



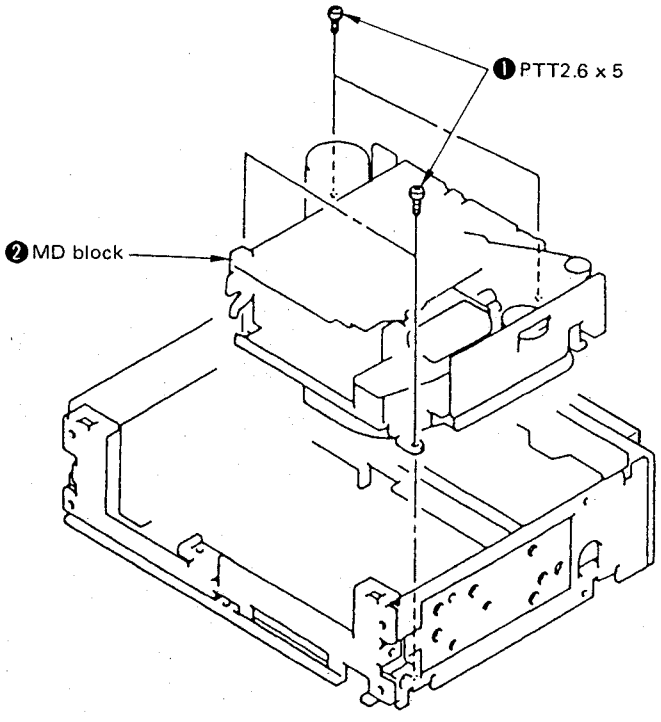
FRONT PANEL ASSEMBLY



POWER BLOCK



MD BLOCK



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

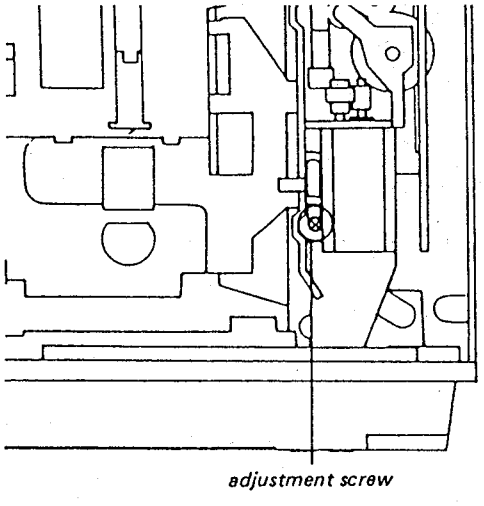
0 dB=775m V

Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD	CQ-102C	30 to 60 g•cm (0.42 to 0.84 oz•inch)
FF, REV	CQ-201B	80 to 170 g•cm (1.12 to 2.38 oz•inch)
Back tension	CQ-102C	1 to 4 g•cm or less (0.01 to 0.05 oz•inch or less)

Adjustment Location:

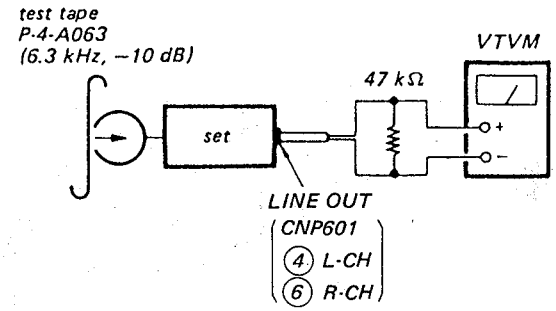


3-2. ELECTRICAL ADJUSTMENTS DECK SECTION

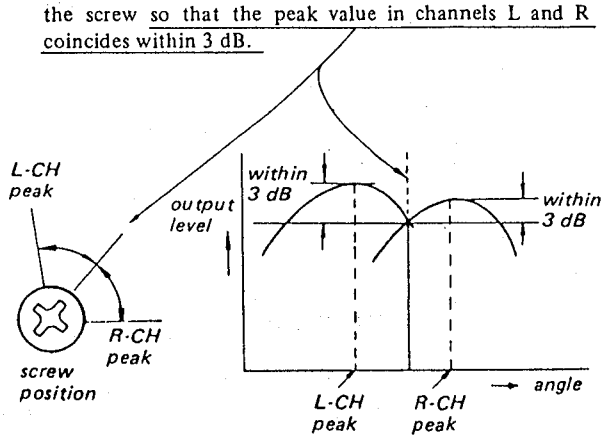
PB Head Vertical Adjustment

Proceudre:

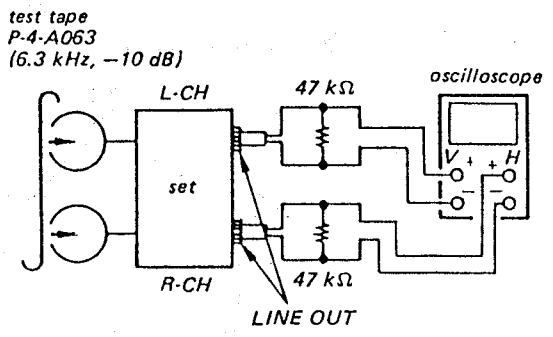
1. Put the set into the FWD PB mode.

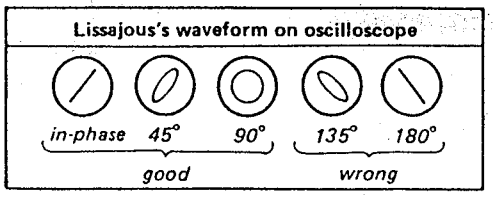


2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 3 dB.



3. Check the phase in the PB mode.



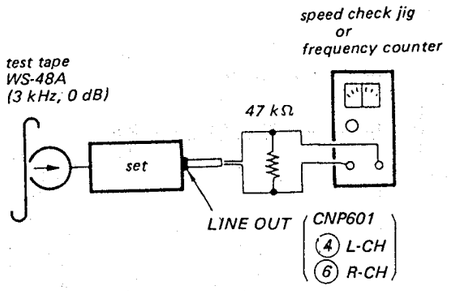


4. Repeat the above adjustment for the PB REV mode.

Capstan Motor Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

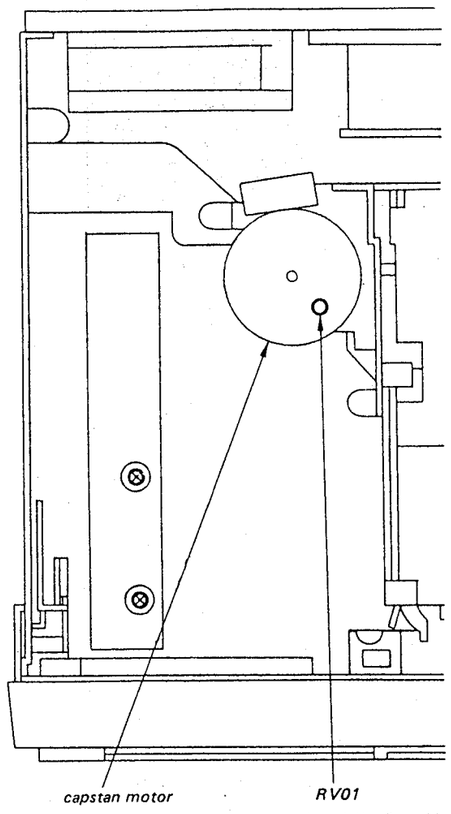


Specification: Constant speed

Speed check jig	Frequency counter
− 0.2 to +0.2%	2,995 to 3,005 Hz

Adjust so that the frequency difference between the FWD and REV modes in within 1.3% (40 Hz).

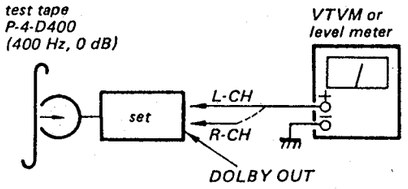
Adjustment Location: RV01



DOLBY NR Level Adjustment

Setting:

DOLBY NR switch: OFF
METAL switch: OFF

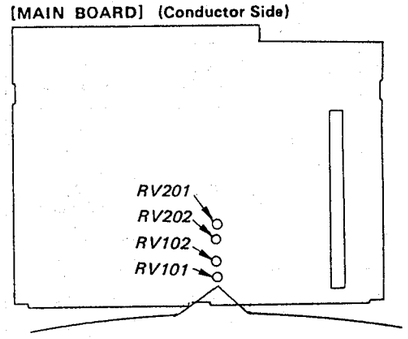


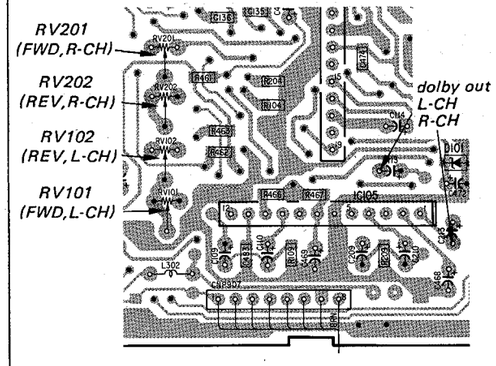
Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) and RV201 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB.
3. Put the set into the REV PB mode.
4. Adjust RV102 (L-CH) and RV202 (R-CH) so that VTVM reading is − 4.7 ± 0.3 dB. (− 4.7 ± 0.3 dB: approx. 0.47 to 0.44 V)

Adjustment Locationn : MAIN board

[MAIN BOARD] (Conductor Side)





REFERENCE

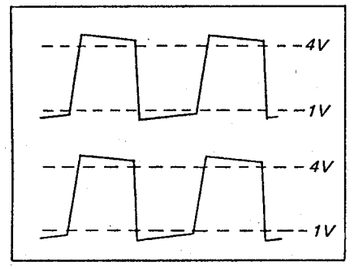
Tape End Detection Check

Tape End Detection adjustment
Before adjusting,set to the test mode 2.
(Refer to Torque Measurement.)

Test tape: *C-60 (or any)*
Setting: *FF or REW*

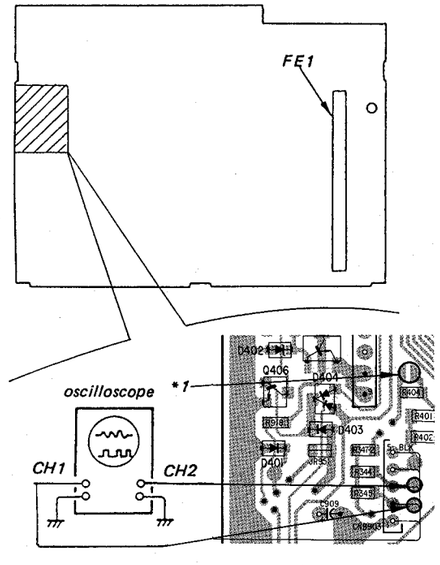
Procedures:

1. Confirm that the both voltages of CH1 and CH2 are more than 4 V at their higher level and less than 1 V at their lower level.
2. If the specification above is not satisfied make a solder bridge at the portion of the pattern marked with *1 on MAIN BOARD, and confirm that the specification of Procedure 1 is satisfied.



Adjustment Location: Main board

[MAIN BOARD] (Conductor Side)



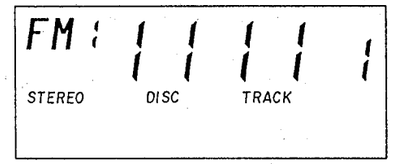
TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

Setting Procedure:

1. While pressing "MUTE" (S724) and "1" (S702) buttons simultaneously,press "RESET" (S740) button.
2. When the test mode is set and "LOUD" is on in AM mode,measurement is available.
   It becomes the standard AM 28 ± 4 dB.
   "⏸" (PAUSE mark) is displayed on the right foot of the display window.
3. Test mode releasing procedure after measuring is pressing "OFF" (S734) or "RESET" (S740) buttons.
   * FM Auto Scan/Stop Level Adjustment is available on either normal operation or the test mode operation.

LCD display pattern on setting the test mode 1 (step 1).



* First display pattern in 12 steps.

Test Mode Setting Procedure:

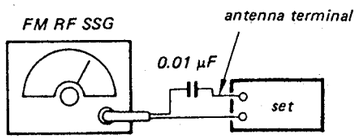
It is easy to adjust FM/AM auto scan/stop level in this test mode.

1. While pressing "MUTE" or "SDK" (S724) and "1" (S702) buttons simultaneously, press "RESET" (S740) button.
2. Test mode releasing procedure after measuring is pressing "OFF" (S734) or "RESET" (S740) buttons.
   * FM/AM Auto Scan/Stop Level Adjustment is available on either normal operation or the test mode operation.

FM Auto Scan/Stop Level Adjustment

Setting:

Band switch: : FM
MONO switch : ON
Frequency : 97.9 MHz/98.0 MHz



Carrier frequency: *97.9 MHz (XR-7600/7130/7140CND)*
98.0 MHz (XR-7140AEP/7140E)
Output level: *25 dB (18 µ V)*
Mode: *mono, unmodulated*

Procedure:

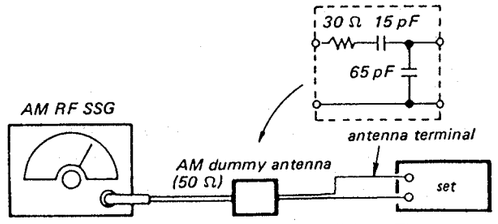
(In Normal Operation)
1. Tune in 97.9/98.0 MHz.
2. Turn RV3 clockwise and make the voltage low.
3. Adjust RV3 so that the VOM reading changes from low to high (5 V reference voltage).
4. When the FM RF SSG's output level is 25 ± 4 dB, check that the auto scan is stopped.

(In Test Mode Operation)
1. Turn RV3 clockwise and make the voltage low.
2. Adjust RV3 so that the " ▌▌ " (PAUSE) mark becomes on.
3. When the FM RF SSG's output level is 25 ± 4 dB, check that the auto scan is stopped.

AM Auto Scan/Stop Level Adjustment

Setting:

Band switch: AM
Frequency: 999 kHz



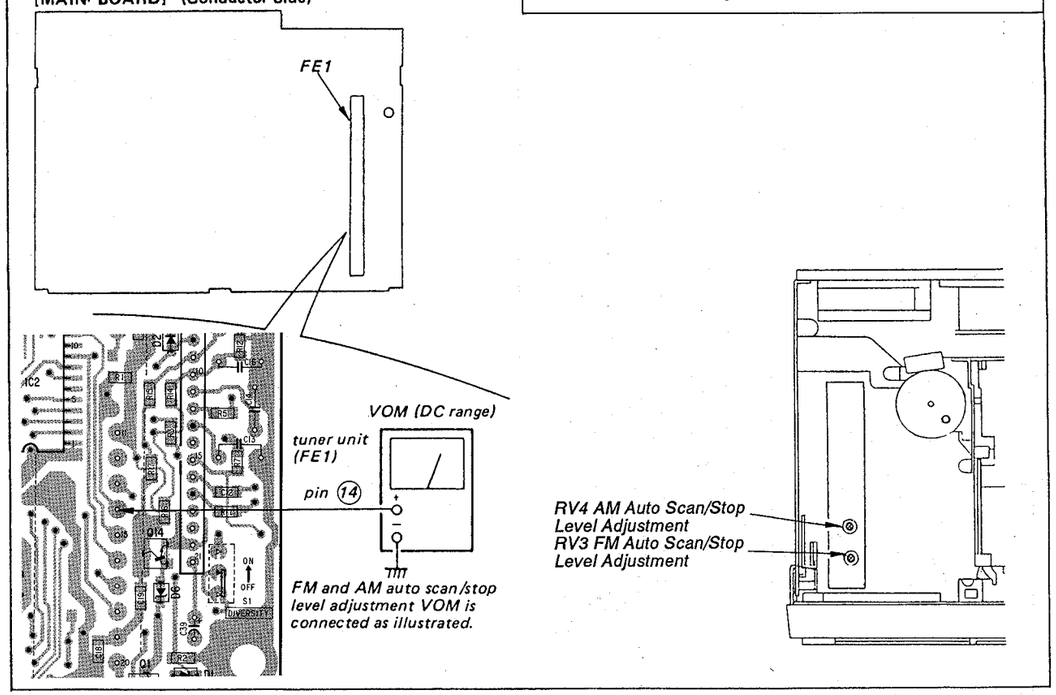
Carrier frequency: *999 kHz (XR-7140AEP/7140E)*
1,000 kHz (XR-7600/7130/7140CND)
Output level: *30 dB (32 µ V)*
Mode: *no modulation*

Procedure:

(In Normal Operation)
1. Turn RV4 clockwise.
2. Press preset "2" button and "SEEK +" button.
3. Adjust RV4 so that the frequency display stops 999 or 1,000 kHz.
4. When the AM RF SG's output level is 30 ± 4 dB, check that the auto scan is stopped.

(In Test Mode Operation)
1. Same as in normal operation.
2. Press "SEEK +" button.
3. Same as in normal operation.
4. Same as in normal operation.

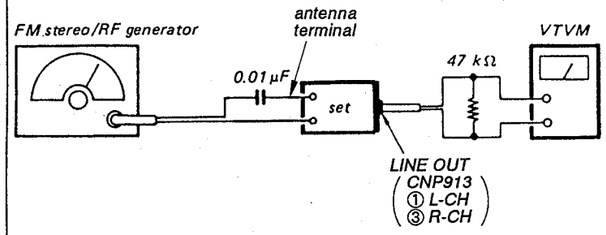
[MAIN BOARD] (Conductor Side)



FM Stereo Separation Adjustment

Setting:

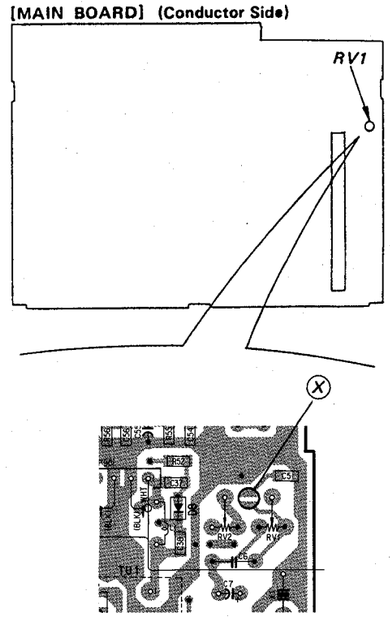
Band switch: FM
Frequency: 97.9 MHz (XR-7600/7130/7140CND)
98.0 MHz (XR-7140AEP/7140E)



Carrier frequency: *97.9 MHz/98.0 MHz*
Output level: *70 dB (3.2 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation.
19 kHz pilot; 7.5 kHz deviation

Adjustment Location:

[MAIN BOARD] (Conductor Side)



Procedure:

1. Adjust RV1 for a best stereo separation at a LINE OUT. More than 26 dB is good.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV1 for minimum reading.

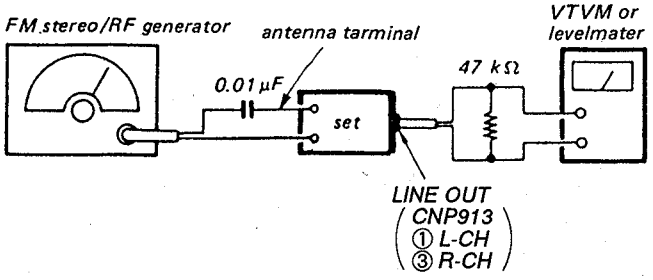
L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ
The separations of both channels shoul be equal.

2. If the result is not enough, make a solder bridge at Ⓧ position and step back to procedure 1.

FM Carrier Leakage

Setting:

Band switch: FM
Frequency: 97.9 MHz (XR-7600/7130/7140CND)
98.0 MHz (XR-7140AEP/7140E)



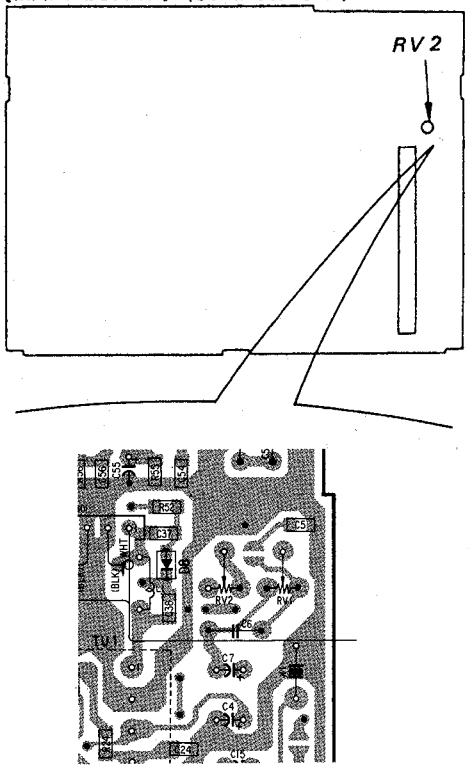
Carrier frequency: *97.9 MHz/98.0 MHz*
Output level: *70 dB (3.2 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation.
19 kHz pilot; 7.5 kHz deviation

Procedure:

Adjust with RV2 so that the carrier leakage becomes to the best condition.

Adjustment Location:

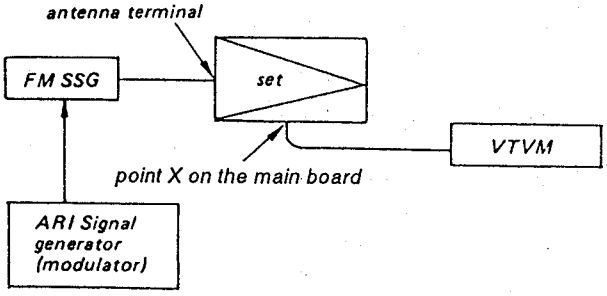
[MAIN BOARD] (Conductor Side)



ARI Level Adjustment (XR-7142 only)

Setting:

Band switch: FM



Frequency: *Initial frequency*
Modulation: *ARI carrier only*
Output level: *4 mVrms (composit)*

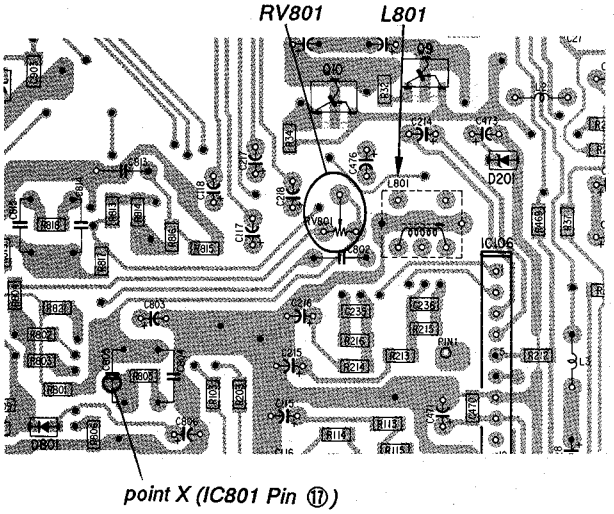
Procedure:

1. Adjust L801 so that the level of 125 Hz signal becomes maximum.
2. Adjust RV801 in the same way.

Specification: 1 Vrms or more

Adjustment Location:

[MAIN BOARD] (Conductor Side)



SECTION 4
DIAGRAMS

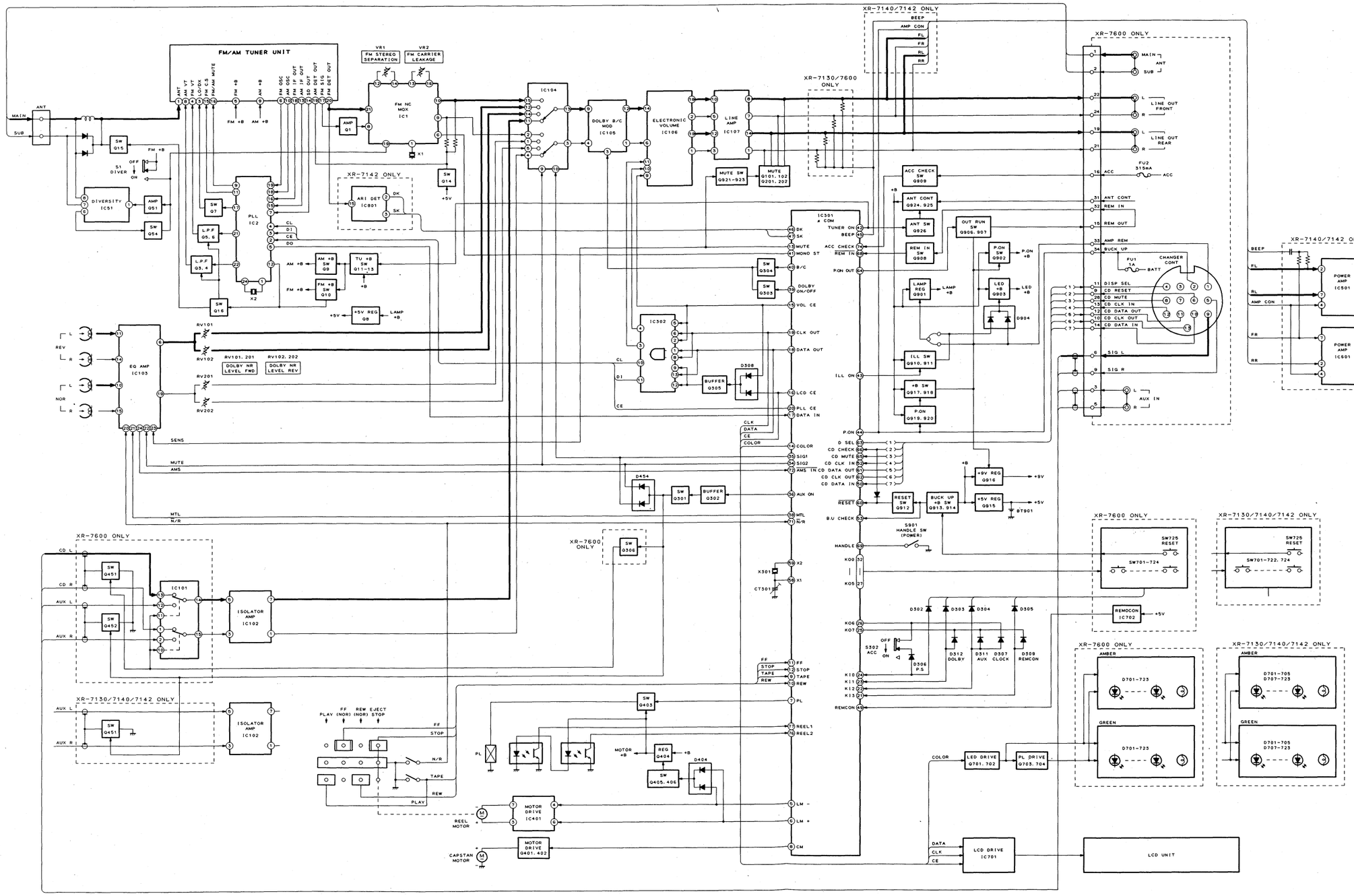
4-1. IC301 (μPD75516G) FUNCTIONAL DESCRIPTION

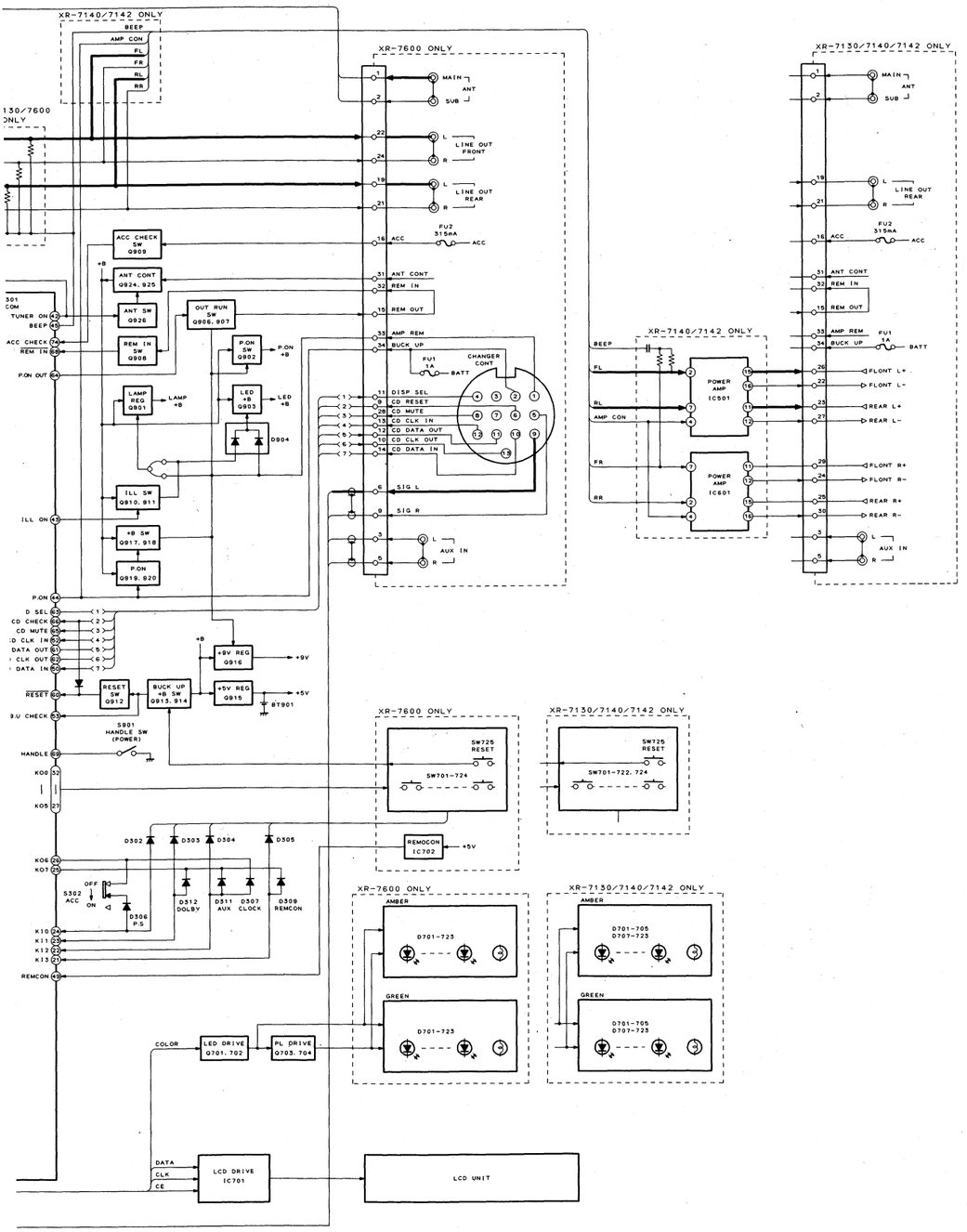
IC301 (μPD75516G) DESCRIPTION

Pin No.	Name	I/O	Description
1	AO	I	Destination setting input.
2	AVREF	I	A/D converter reference voltage input.
3	VDD	–	Positive power input.
4	VDD	–	
5	LM+	O	Forward rotation motor control.
6	LM-	O	Reverse rotation motor control.
7	DPL	O	Direction plunger.
8	DPM	O	Capstan motor control.
9	POS3	I	Tape mechanical deck position switch.
10	POS2	I	
11	POS1	I	
12	POS0	I	
13	MUTE	O	Muting control.
14	COLOR	O	Color illumination switching control.
15	VOLCE	O	Electronic volume enable signal.
16	LCDCE	O	LCD driver enable signal.
17	DATA IN	I	Information input from PLL-IC.
18	DATA OUT	O	Serial data output.
19	CLK OUT	O	Serial transmission clock.
20	PLLCE	O	PLL-IC enable signal.
21	KI3	I	Key information input.
22	KI2	I	
23	KI1	I	
24	KI0	I	
25	KO7	O	Key-return signal source.
26	KO6	O	
27	KO5	O	
28	KO4	O	
29	KO3	O	
30	KO2	O	
31	KO1	O	
32	KO0	O	
33	GND	–	Ground.
34	SIG2	O	Audio-signal switching signal.
35	SIG1	O	
36	AUX-ON	O	AUX signal ON.
37	PPA MUTE	O	PW-AMP mute.
38	METAL	I/O	Metal select.
39	DOLBY	O	Dolby ON/OFF select.
40	DOLBY-C	O	Dolby B/C select. (H: B, L: C)
41	STEREO	I/O	Auto stereo/forced monochrome select.
42	PTUNER	O	Tuner power-antenna output.
43	ILL-ON	O	Illumination output.
44	POWER	O	System power output.
45	BEEP	O	Buzzer output signal (2KHz/1KHz).
46	DK	I	DK signal input.
47	SK	I	SK signal input.
48	BK	I	BK signal input.
49	REMCOM	I	Remote control input.
50	CD-DATA-IN	I	Auto changer information input.
51	—	–	—
52	CD-CLK-IN	I	CD data input clock.

Pin No.	Name	I/O	Description
53	BU-CHECK	I	Back-up check.
54	—	–	—
55	—	–	32.7 kHz.
56	—	–	Subsystem clock.
57	—	–	—
58	—	–	4.19 MHz.
59	—	–	Main system clock.
60	RESET	I	Reset input.
61	CD-DATA	O	CD data transmission data line.
62	CD-CLK	O	CD data transmission clock line.
63	DSPSEL	O	Display-select.
64	OUT-RUN	O	AUX-STOP signal.
65	CD-MUTE	I	CD mute request input.
66	CD-CHECK	I	CD loaded/not loaded check.
67	AUX-MUTE	I	AUX mute request input.
68	REM-IN	I	AUX operation request input.
69	HANDLE	I	Handle switch input.
70	—	–	—
71	N/R	I	Tape-running direction input. (L: normal, R: reverse)
72	AMS/IN	I	Tape audio signal input.
73	—	–	—
74	ACC	I	Accessory input.
75	LINE-IN	I	Equalizer remote input.
76	REEL2	I	Feed reel input.
77	REEL1	I	Take-up reel input.
78	TEST	I	Test mode switch.
79	A2	I	Regions setting input.
80	A1	I	

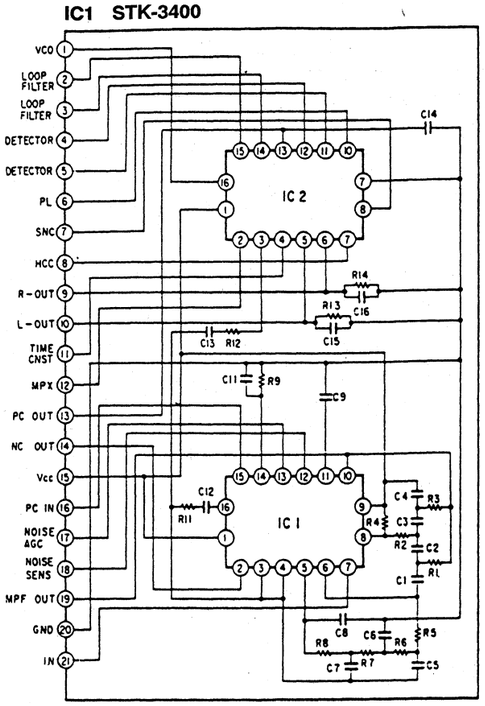
● Block Diagrams



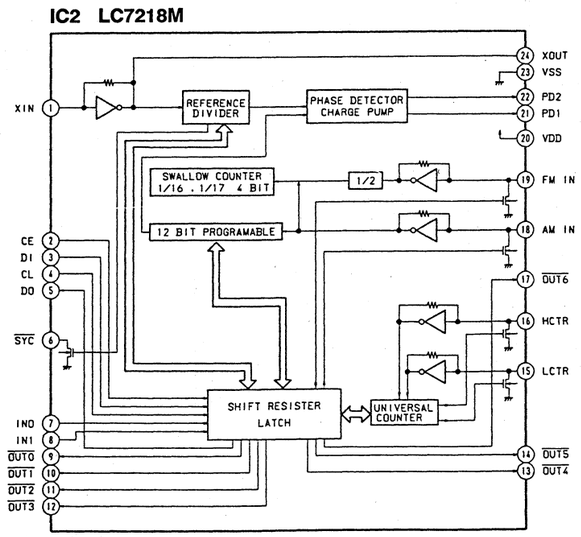


● IC Block Diagrams

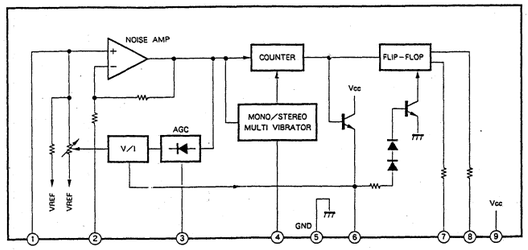
IC1 STK-3400



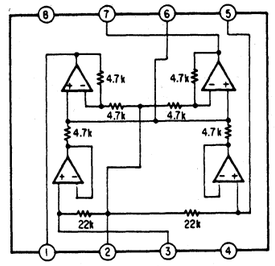
IC2 LC7218M



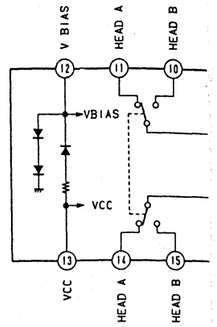
IC51 LA1060



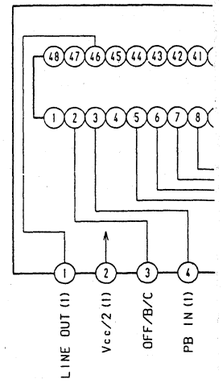
IC102 M5280FP



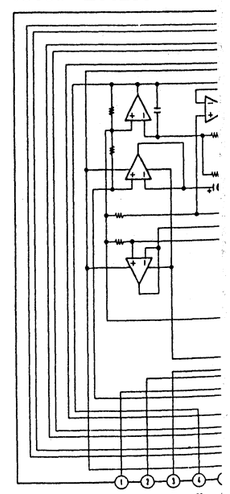
IC103 BA3430FS



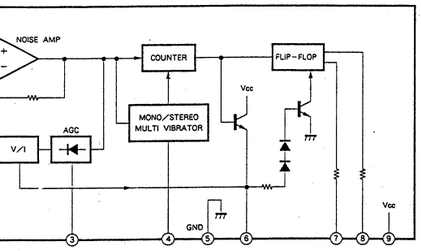
IC105 NR9561



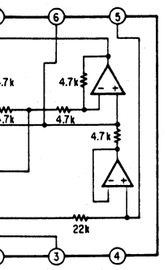
IC106 EV1200



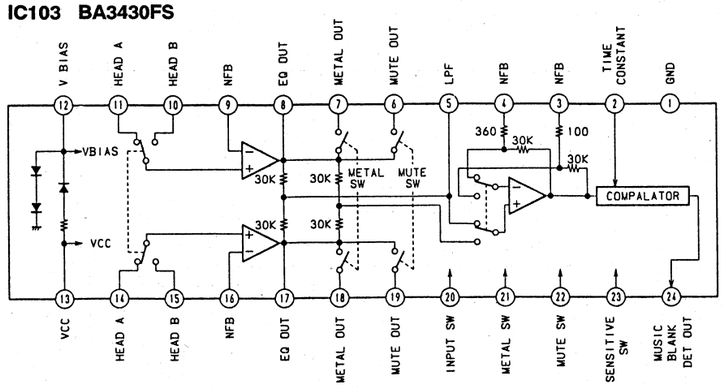
060



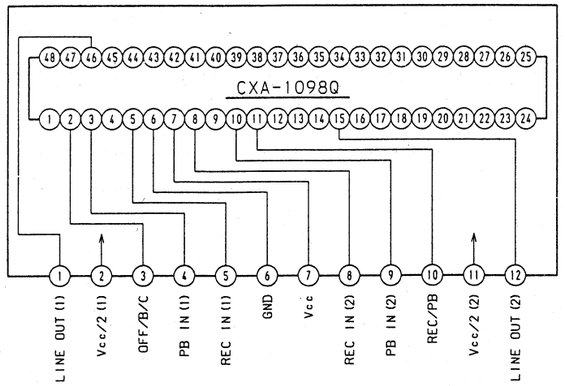
280FP



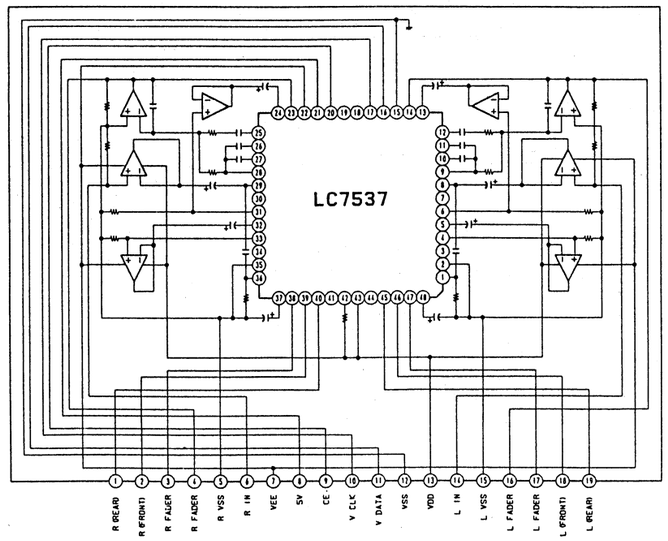
IC103 BA3430FS



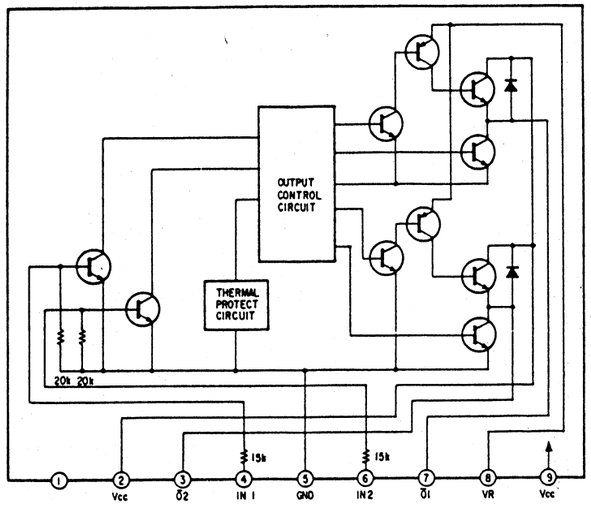
IC105 NR9561



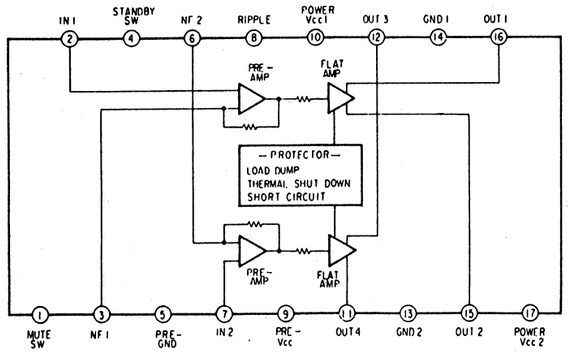
IC106 EV1200

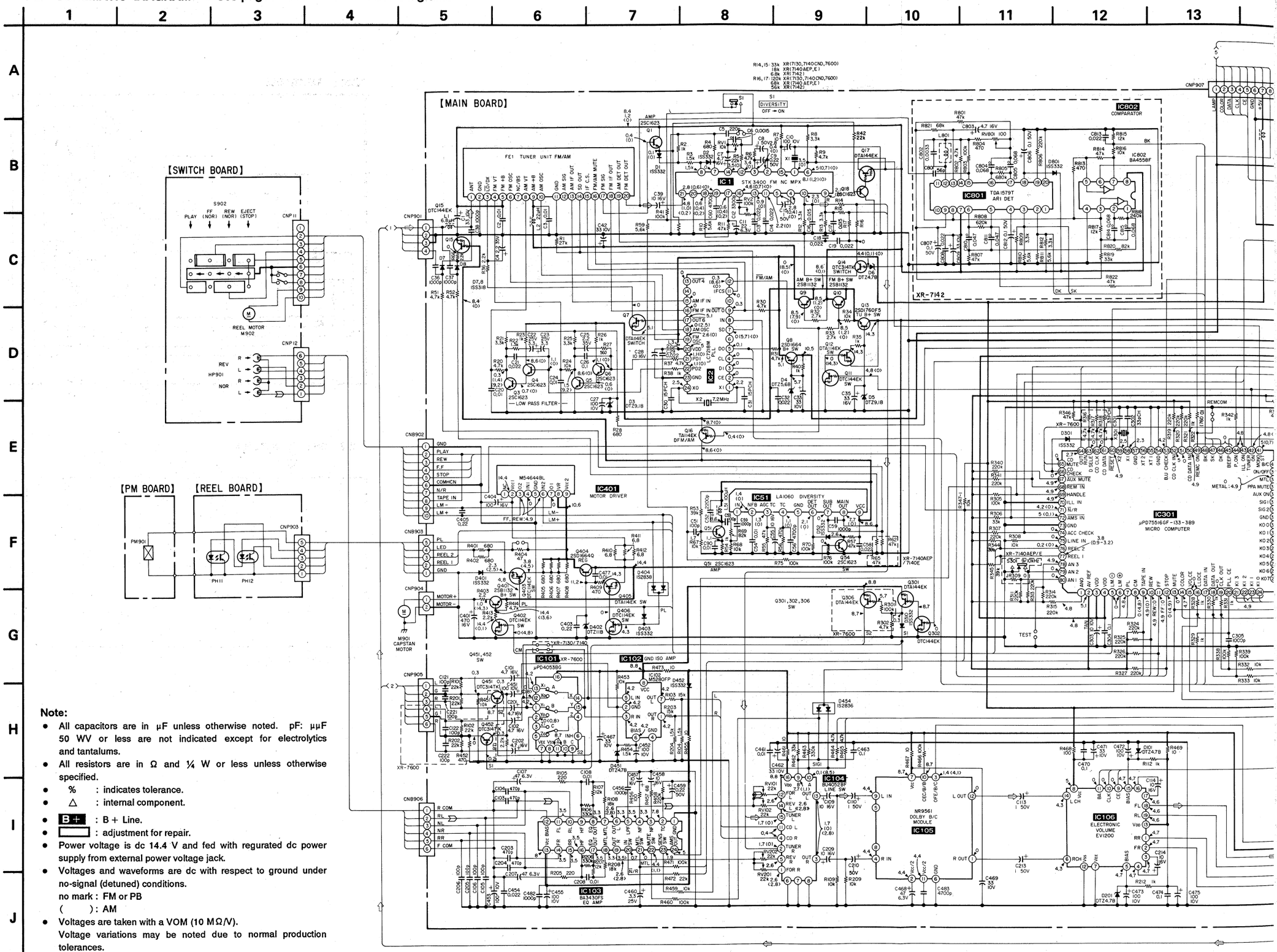


IC401 M54644BL



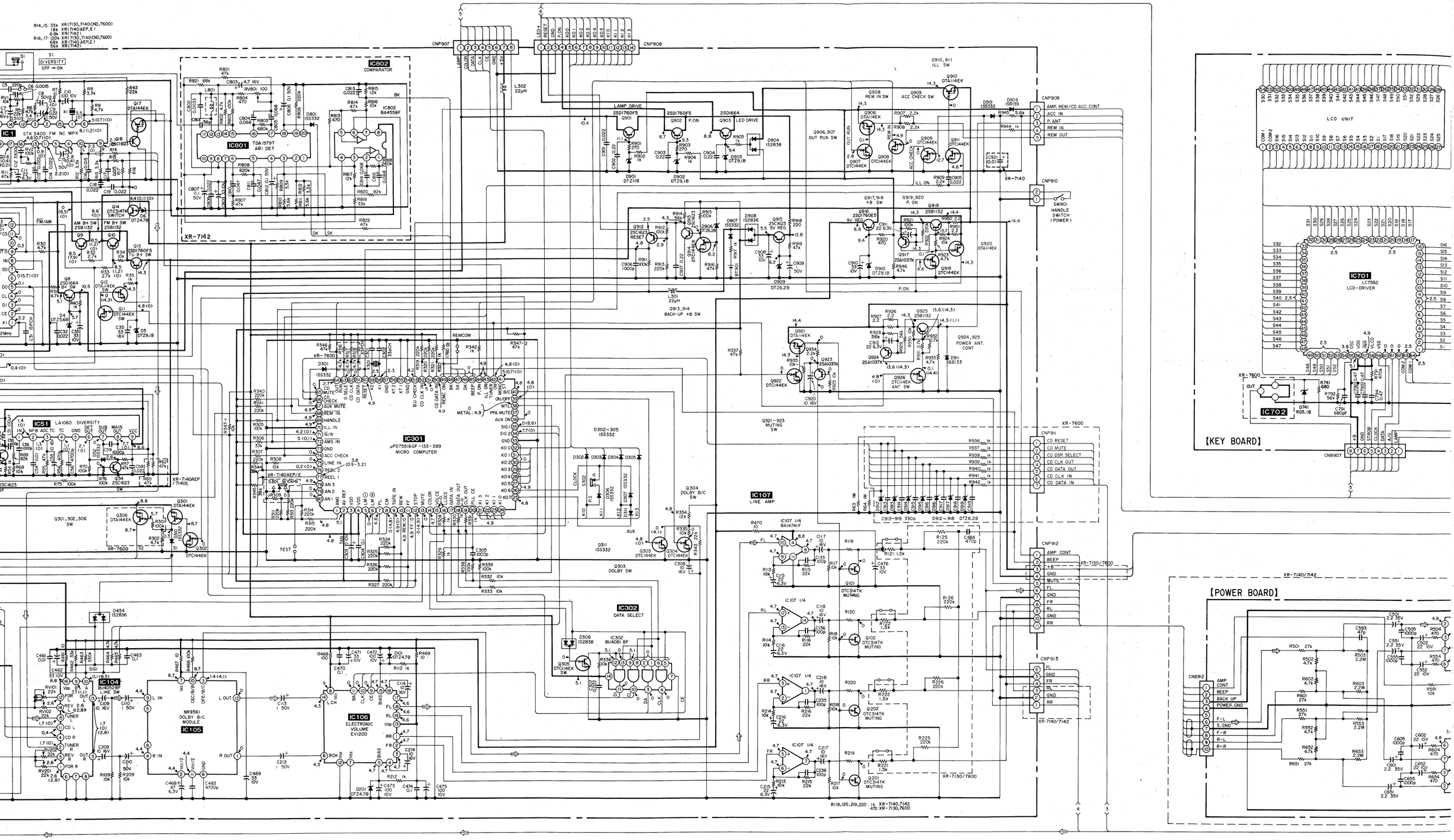
IC501, 601 TA8215HA





Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- B+ : B + Line.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4 V and fed with regurated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ( ) : AM
- Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇦ : PB


IC1 STK 3400 FM NC MPX
IC51 LA1060 DIVERSITY
IC104 BU4052BF LINE SW
IC105 NR9561 DOLBY B/C MODULE
IC106 ELECTRONIC VOLUME EVI200
IC107 LINE AMP
IC301 μPD755/6GF-133-389 MICRO COMPUTER
IC302 DATA SELECT
IC701 LC7582 LCD-DRIVER
IC801 TDA1579T ARI DET
IC802 COMPARATOR
IC702 RD5.1B
XR-7140
XR-7142
XR-7140AEP /7140E
XR-7600
XR-7130/7600
XR-7140/7142
【KEY BOARD】
【POWER BOARD】
LCD UNIT
CNP907
CNP908
CNP909
CNP910
CNP911
CNP912
CNP913
CN8907
CN8912
LAMP DRIVE 2SD1760F5 Q901
P.ON 2SD1760F5 Q902
LED DRIVE 2SD1664 Q903
OUT RUN SW Q906,907
ILL SW Q910,911
ACC CHECK SW Q909
REM IN SW Q908
BACK-UP +B SW Q913,914
P.ON Q916,917,918
POWER ANT. CONT Q924,925
ANT SW Q926
MUTING SW Q921-923
DOLBY SW Q303
DOLBY B/C SW Q304
AM B+ SW Q9
FM B+ SW Q10
TU B+ SW Q13
Q301,302,306 SW
HANDLE SWITCH (POWER) SW901
DIVERSITY OFF→ON SI
REMCOM
METAL: 4.9
TEST
AUX
FM/AM

	R702	R708
XR-7600	240	240
XR-7130/7140/7142	120	120

	R752	R758	R759
XR-7600	240	240	2.2k
XR-7130/7140/7142	120	120	1k

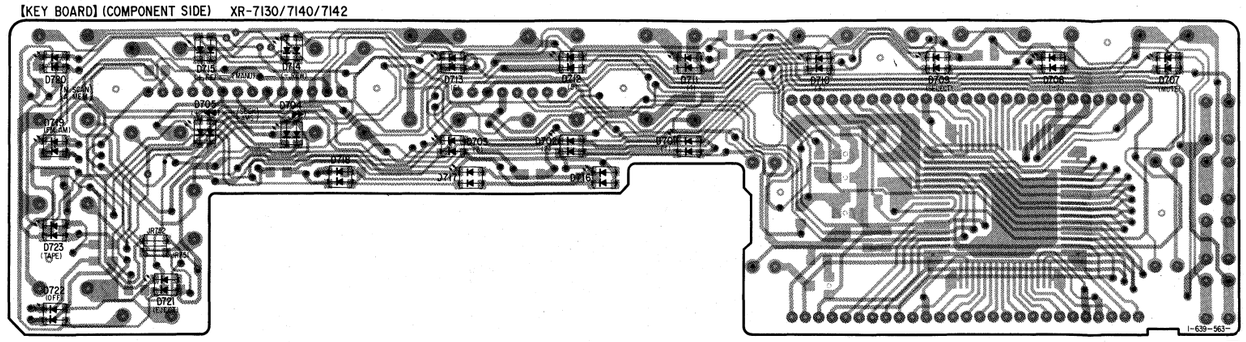
D701 - D723 CL-155Y/PG-CD (BACK LIGHT)

【KEY BOARD】

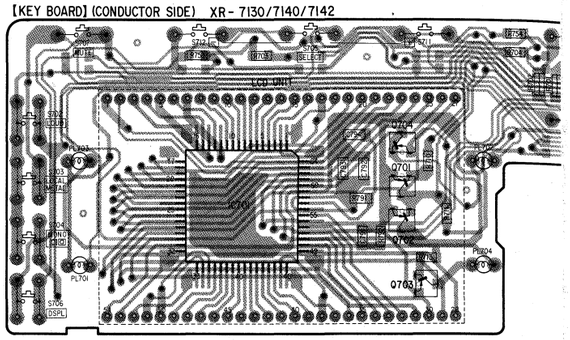
【POWER BOARD】

4-3. PRINTED WIRING BOARDS • See page 38 for notes.

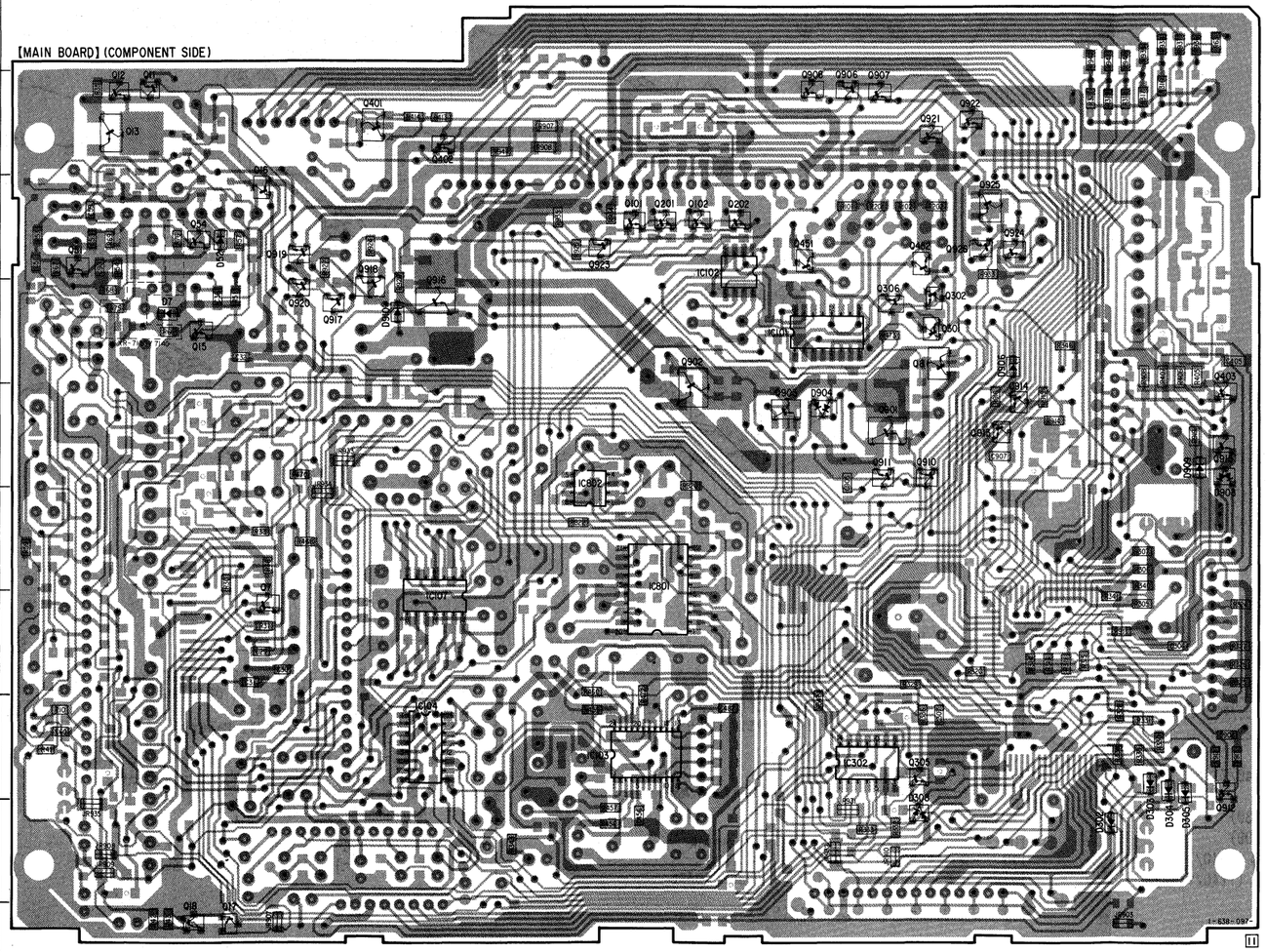
【KEY BOARD】(COMPONENT SIDE) XR-7130/7140/7142



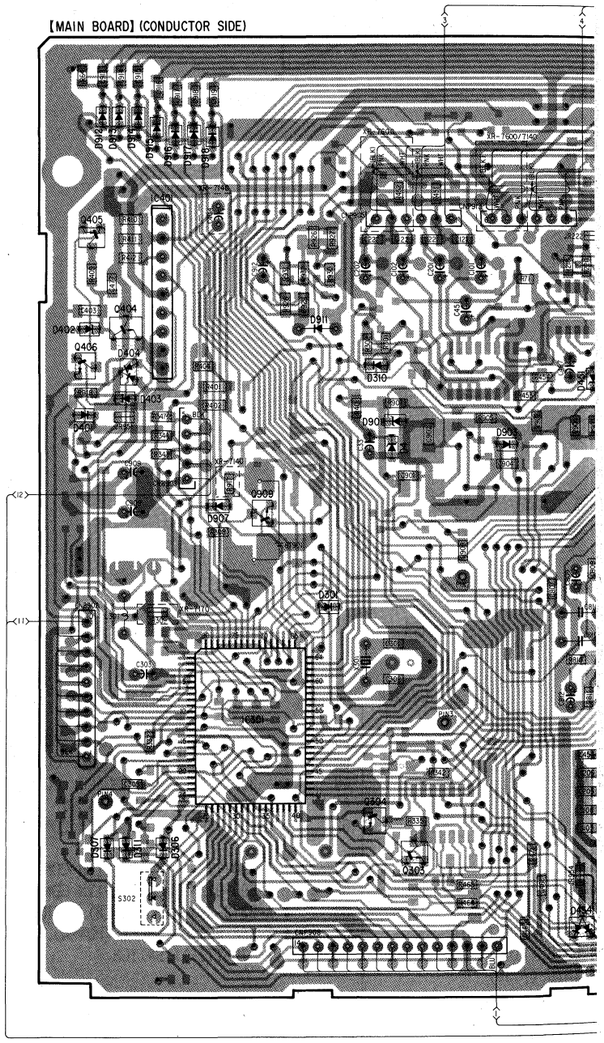
【KEY BOARD】(CONDUCTOR SIDE) XR-7130/7140/7142



【MAIN BOARD】(COMPONENT SIDE)



【MAIN BOARD】(CONDUCTOR SIDE)



【KEY BOARD】(CONDUCTOR SIDE) XR-7130/7140/7142

【MAIN BOARD】(CONDUCTOR SIDE)

XR-7600/7140

XR-7130/7600

XR-7140/7142

BLAKET CONNECTOR

XR-7600

XR-7600Q

CD CHANGER IN

XR-7140/7142

【POWER AMP BOARD】

IC601

M902 MOTOR

HP901 PLAYBACK HEAD

S902 ROTARY SWITCH

【SWITCH BOARD】

【PM BOARD】

【REEL BOARD】

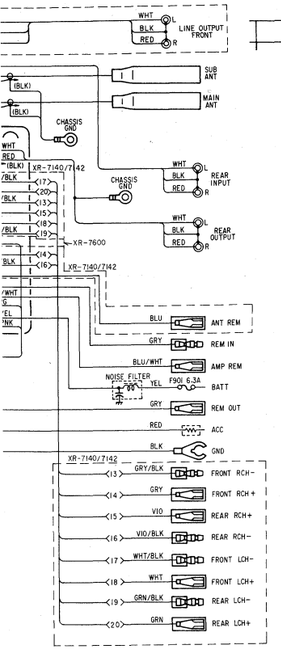
PH11

PH12

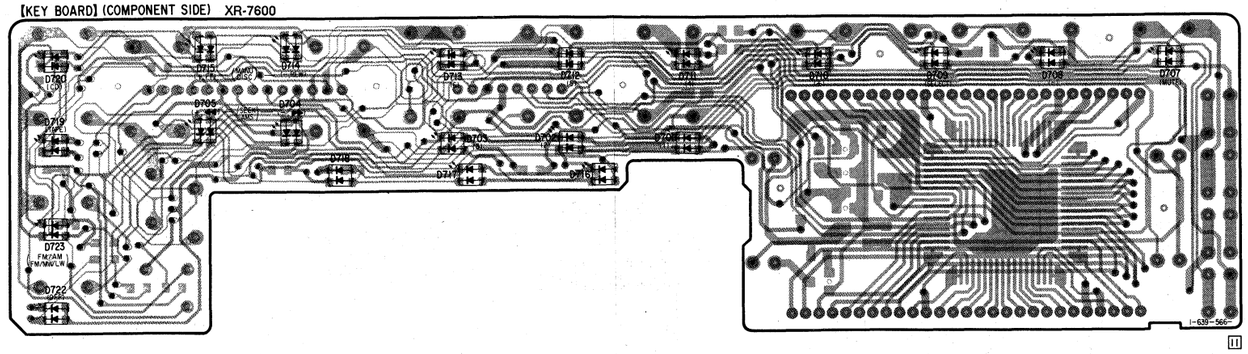
【KEY BOARD】(COMPONENT SIDE) XR-760

【KEY BOARD】(CONDUCTOR SIDE) XR-7600

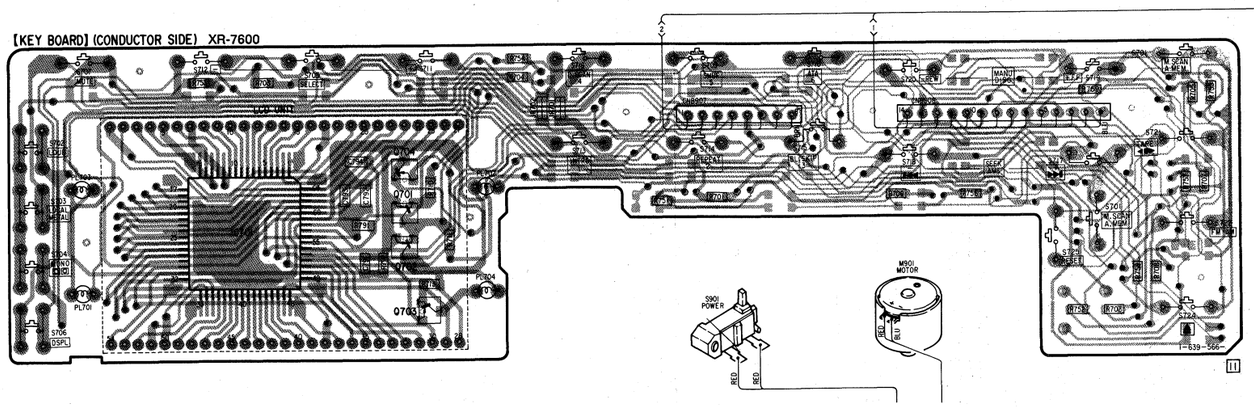
34	35	36	37	38	39	40	41	42	43	44	45	46	47

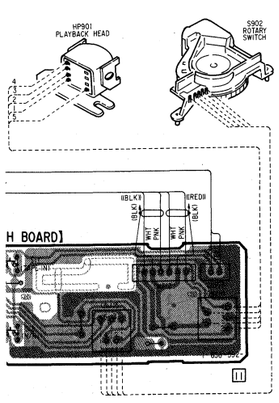


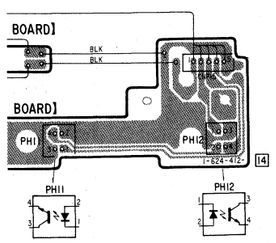
【KEY BOARD】(COMPONENT SIDE) XR-7600



【KEY BOARD】(CONDUCTOR SIDE) XR-7600







• Semiconductor Location

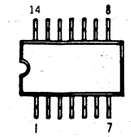
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	M-25	D720	A-1	Q10	I-21
D2	J-25	D721	C-3	Q11	F-2
D3	H-23	D722	D-1	Q12	F-2
D4	I-17	D723	C-1	Q13	F-2
D5	F-23	D801	K-19	Q14	L-24
D6	M-24	D901	H-17	Q15	H-2
D7	H-2	D902	I-19	Q16	G-3
D8	H-24	D903	I-18	Q51	G-1
D52	G-3	D904	I-8	Q54	G-2
D101	L-23	D905	G-21	Q101	G-7
D201	I-22	D906	H-10	Q102	G-7
D301	J-16	D907	I-15	Q201	G-7
D302	M-11	D908	I-12	Q202	G-8
D303	L-12	D909	I-12	Q301	H-9
D304	L-12	D910	H-4	Q302	H-9
D305	L-12	D911	H-16	Q303	M-17
D306	L-15	D912	F-14	Q304	L-17
D307	L-14	D913	F-14	Q305	L-9
D308	M-9	D914	F-14	Q306	H-9
D310	H-17	D915	F-15	Q401	F-4
D311	L-14	D916	F-15	Q402	F-5
D401	H-14	D917	F-15	Q403	I-12
D402	H-14	D918	F-15	Q404	H-14
D403	H-14	D919	E-20	Q405	G-14
D404	H-14			Q406	H-14
D451	H-19	IC1	J-25	Q451	G-8
D452	L-20	IC2	K-23	Q452	G-9
D454	M-19	IC51	G-24	Q701	C-17
D501	I-28	IC101	H-8	Q702	C-17
D502	I-29	IC102	G-8	Q703	C-17
D551	I-27	IC103	L-7	Q704	B-17
D552	I-27	IC104	L-5	Q901	I-9
D591	M-27	IC105	M-22	Q902	I-7
D601	L-29	IC106	J-22	Q903	I-8
D602	L-28	IC107	K-5	Q906	F-9
D651	K-27	IC301	K-15	Q907	F-9
D652	K-27	IC302	L-9	Q908	F-8
D701	B-7	IC401	G-15	Q909	I-16
D702	B-6	IC501	H-29	Q910	I-9
D703	B-5	IC601	K-29	Q911	I-9
D704	B-4	IC701	C-16	Q912	L-12
D705	B-3	IC801	J-7	Q913	I-10
D706	C-2	IC802	I-6	Q914	I-10
D707	A-12			Q915	I-12
D708	A-11	PH11	L-32	Q916	H-5
D709	A-10	PH12	L-33	Q917	H-4
D710	A-9			Q918	H-4
D711	A-7	Q1	M-24	Q919	G-3
D712	A-6	Q2	J-24	Q920	H-3
D713	A-5	Q3	I-24	Q921	F-9
D714	A-4	Q4	J-24	Q922	F-10
D715	A-3	Q5	I-24	Q923	G-6
D716	B-7	Q6	I-24	Q924	G-10
D717	B-5	Q7	K-3	Q925	G-10
D718	B-4	Q8	H-10	Q926	G-10
D719	B-1	Q9	H-22		

Note:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.
- ▒▒▒ : Pattern of the rear side.

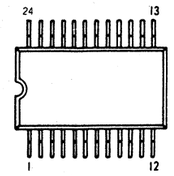
• Semiconductor Lead Layouts

BA14741F
BU4081BF



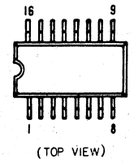
(TOP VIEW)

BA3430FS
LC7218M



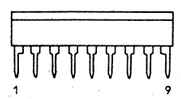
(TOP VIEW)

BU4052BF
μ PD4053BG

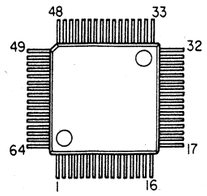


(TOP VIEW)

LA1060



LC7582



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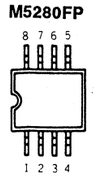

(TOP VIEW)

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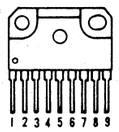

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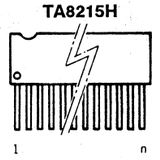
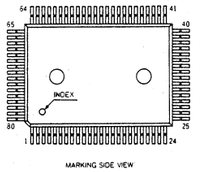


μ PD75516GF-274-3B9



MARKING SIDE VIEW

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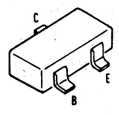
DTA144EK
DTC114EK
DTC144EK
DTC314TKH04
DTD113EK
2SA1162
2SC1623



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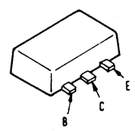

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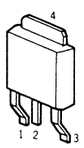

1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

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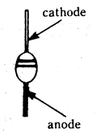

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DTZ5.6B
DTZ6.2B
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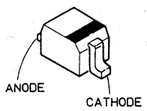
1SS332



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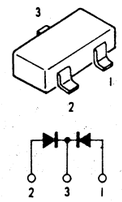

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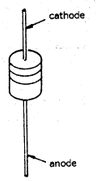

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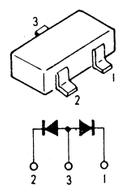

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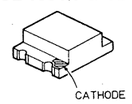

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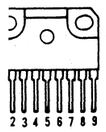

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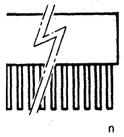

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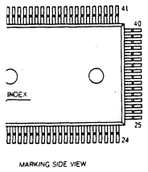

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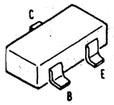

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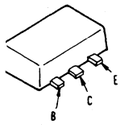

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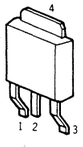
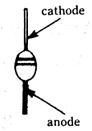


1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

DSA3A4



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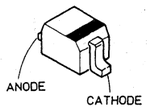

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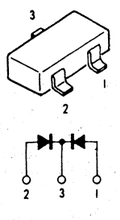

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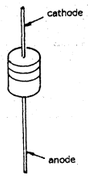

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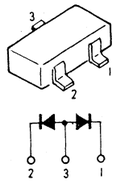

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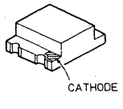
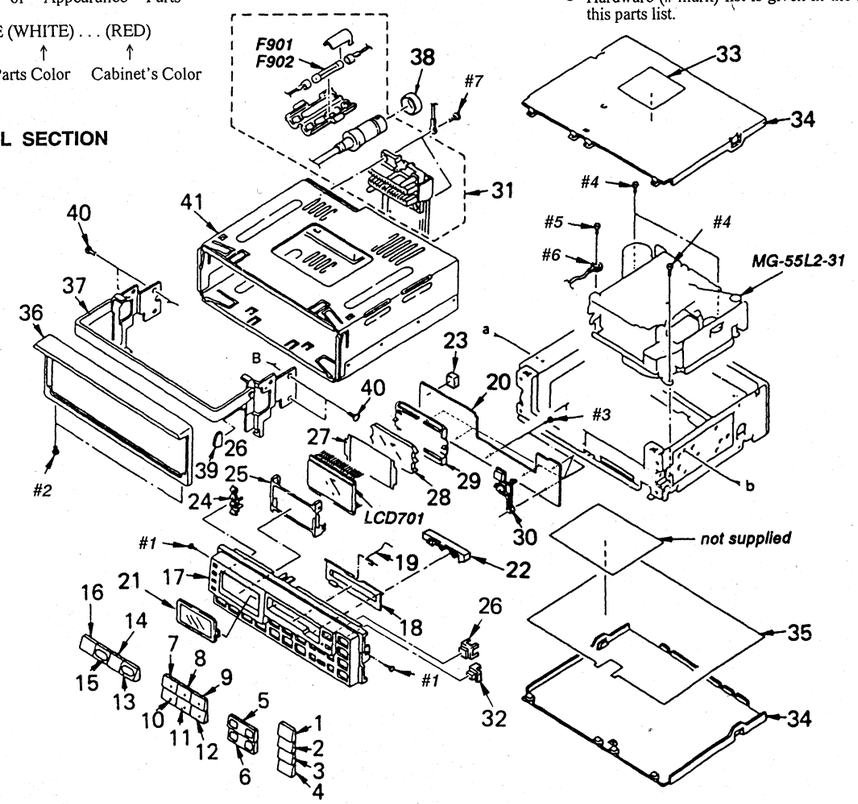


SECTION 5
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

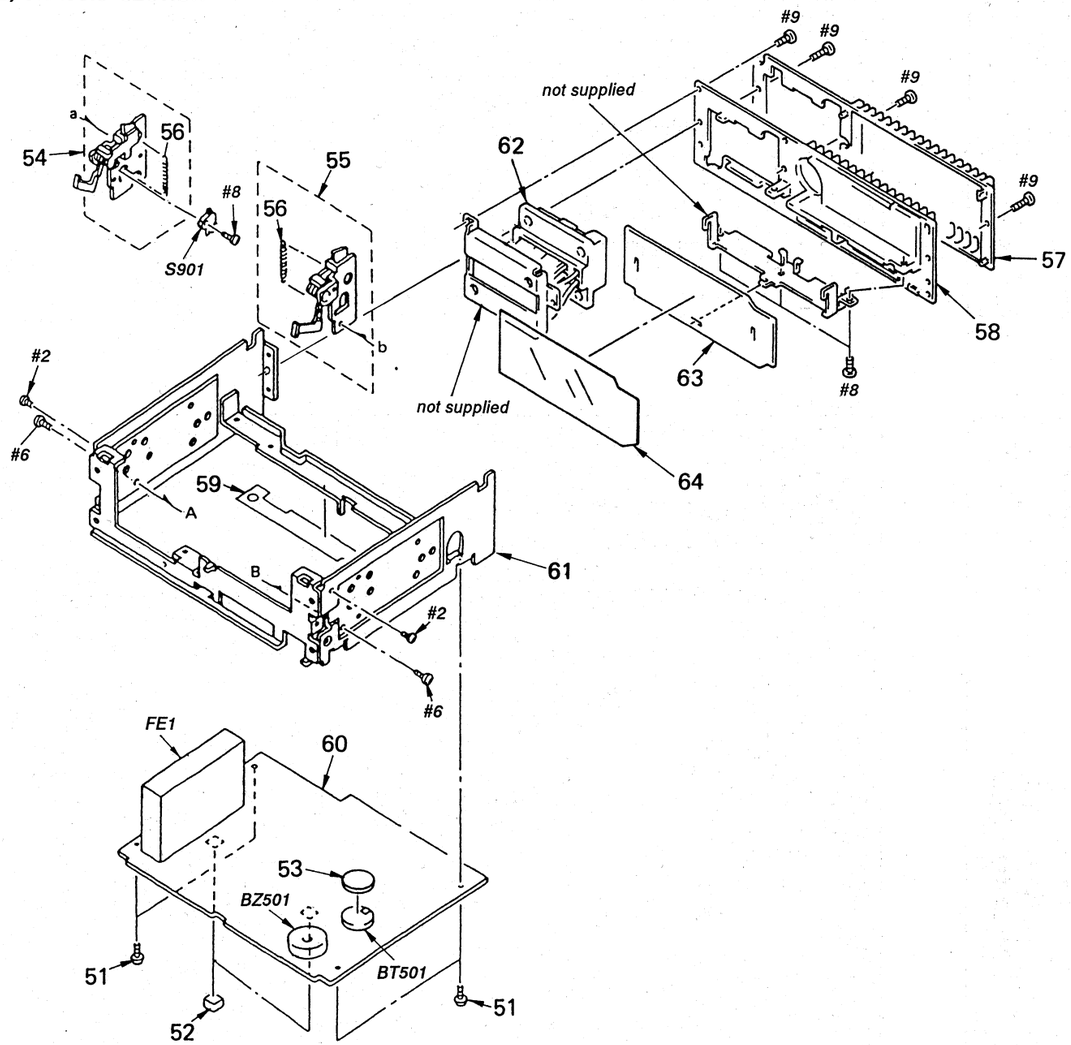
(1) FRONT PANEL SECTION



Ref.No.	Part No.	Description	Remark
1	3-366-642-02	BUTTON (RU) (OFF) (7130/7140/7142)	
1	3-366-642-12	BUTTON (RU) (▲) (7600)	
2	3-366-643-02	BUTTON (RM) (FM/AM) (7600)	
2	3-366-643-11	BUTTON (RM) (TAPE) (7130/7140/7142)	
3	3-366-643-02	BUTTON (RM) (FM/AM) (7130/7140/7142)	
3	3-366-643-11	BUTTON (RM) (TAPE) (7600)	
4	3-366-644-11	BUTTON(RD)(M.SCAN/A.MEM)(7130/7140/7142)	
4	3-366-644-01	BUTTON (RD (CD) (7600)	
5	3-366-645-01	BUTTON (SEEK/AMS)	
6	3-366-641-01	BUTTON (MANU/DISC) (7600)	
6	3-366-641-11	BUTTON (MANU) (7130/7140/7142)	
7	3-366-647-01	BUTTON (PRESET/L) (1/INTRO)	
8	3-366-648-01	BUTTON (PRESET/M) (2/REPEAT)	
9	3-366-649-01	BUTTON (PRESET/R) (3/BL.SKIP)	
10	3-366-647-11	BUTTON (PRESET/L) (4) (7600)	
10	3-366-647-21	BUTTON (PRESET/L) (4) (7130/7140/7142)	
11	3-366-648-11	BUTTON (PRESET/M) (5) (7600)	
11	3-366-648-21	BUTTON (PRESET/M) (5) (7130/7140/7142)	
12	3-366-649-11	BUTTON (PRESET/R) (6/ATA)	
13	3-366-634-01	BUTTON (+)	
14	3-366-635-01	BUTTON (SELECT)	
15	3-366-636-01	BUTTON (-)	
16	3-366-650-01	BUTTON (MUTE) (7130/7140/7142)	
16	3-366-650-01	BUTTON (MUTE) (7142)	
17	3-366-632-12	PANEL, FRONT (7600)	
17	3-366-632-22	PANEL, FRONT (7130/7140/7142)	
18	3-358-631-41	DOOR, CASSETTE (7140)	
18	3-358-631-61	DOOR, CASSETTE (7142)	
18	3-358-631-71	DOOR, CASSETTE (7130)	
18	3-358-631-81	DOOR, CASSETTE (7600)	
19	3-349-454-01	SPRING (C DOOR), TORSION	
20	* A-3273-354-A	KEY (B) BOARD, COMPLETE (7140/7142)	
20	* A-3273-359-A	KEY (B) BOARD, COMPLETE (7130)	
20	* A-3273-513-A	KEY (B) BOARD, COMPLETE (7600)	

Ref.No.	Part No.	Description	Remark
21	3-366-638-01	PLATE, INDICATION	
22	3-366-639-01	PLATE (C DOOR), LIGHT GUIDE	
23	9-911-841-XX	CUSHION, CASSETTE LID	
24	3-366-637-01	BUTTON (4 GANG) (W)	
25	3-357-091-01	PLATE (LCD), GROUND	
26	3-370-676-01	FILTER (CATCHER, RAY) (7600)	
27	3-349-440-11	SHEET (PEFLECTOR)	
28	* 3-357-086-01	PLATE (LCD), LIGHT GUIDE	
29	* 3-357-087-01	HOLDER (LCD)	
30	3-370-262-01	BUTTON (RESET) (7130/7140/7142)	
30	3-371-092-01	BUTTON (RESET) (7600)	
31	1-590-774-12	CORD (WITH CONNECTOR) (7140:CND)	
31	1-590-978-11	CORD (WITH CONNECTOR) (7600)	
31	1-590-776-11	CORD (WITH CONNECTOR) (7130)	
31	1-590-774-21	CORD (WITH CONNECTOR) (7140:AEP,E)	
32	3-370-675-01	BUTTON (DUMMEY) (7130/7140)	
33	* 3-368-385-02	LABEL, MODEL NUMBER (7130)	
33	* 3-368-386-01	LABEL, MODEL NUMBER (7140:AEP,E)	
33	* 3-369-507-02	LABEL, MODEL NUMBER (7600:US)	
33	* 3-369-511-01	LABEL, MODEL NUMBER (7140:CND)	
33	* 3-369-508-01	LABEL, MODEL NUMBER (7142)	
33	* 3-370-891-01	LABEL, MODEL NUMBER (7600:CND)	
34	* 3-353-402-11	COVER	
35	* 3-344-560-71	INSULATOR (3)	
36	3-344-564-01	FRAME, ORNAMENTAL	
37	X-3363-048-2	HANDLE ASSY (7142)	
37	X-3363-086-1	HANDLE ASSY (7130/7140/7600)	
38	3-566-347-00	COVER (A), CONNECTOR	
39	3-344-526-02	BUTTON (RELEASE)	
40	3-344-561-21	SCREW (M4X4)	
41	* X-3344-509-3	BRACKET ASSY	
F901	1-532-508-11	FUSE 8A	
F902	1-532-409-11	FUSE 0.315A	
LCD701	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	

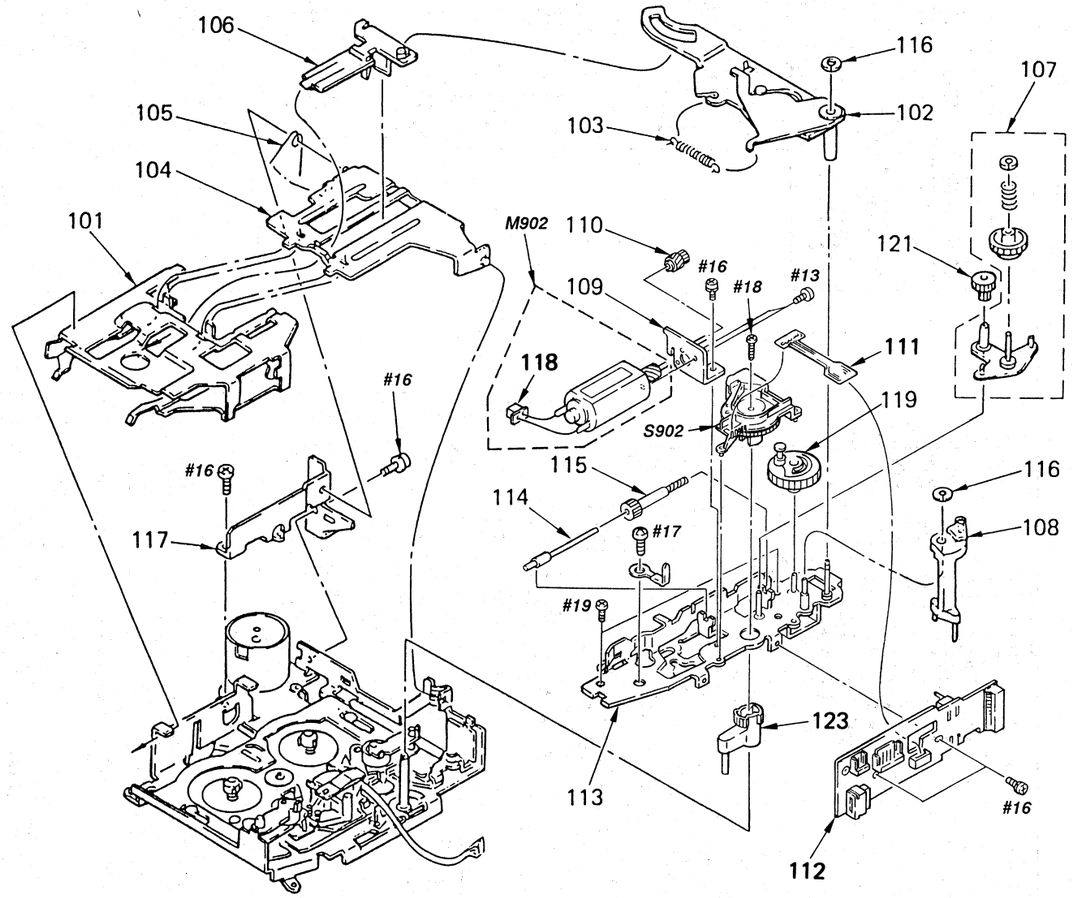
(2) CHASSIS SECTION



Ref.No.	Part No.	Description	Remark
51	3-344-501-11	SCREW (+ PTT 3X8),GROUND POINT	
52	9-911-841-XX	CUSHION, CASSETTE LID	
53	* 3-896-343-01	SHEET, INSULATING	
54	X-3344-502-1	LOCK ASSY (LEFT)	
55	X-3344-503-1	LOCK ASSY (R)	
56	3-645-189-00	SPRING, TENSION	
57	* 3-357-097-01	COVER (7140/7142)	
58	* 3-357-093-02	HEAT SINK (7140/7142)	
59	* 3-353-458-01	INSULATOR (CHASSIS) (7130/7140)	
60	* A-3222-230-A	MAIN BOARD, COMPLETE (7140)	
60	* A-3222-232-A	MAIN BOARD, COMPLETE (7130)	

Ref.No.	Part No.	Description	Remark
60	* A-3222-275-A	MAIN BOARD, COMPLETE (7600)	
60	* A-3222-276-A	MAIN BOARD, COMPLETE (7140:AEP, E)	
60	* A-3222-284-A	MAIN BOARD, COMPLETE (7142)	
61	* X-3362-710-1	CHASSIS ASSY	
62	1-590-775-11	CORD (WITH CONNECTOR) (7140/7142)	
62	1-590-777-11	CORD (WITH CONNECTOR) (7130)	
62	1-590-979-11	CORD (WITH CONNECTOR) (7600)	
63	* A-3273-351-A	POWER (B) BOARD, COMPLETE (7140/7142)	
64	* 3-358-653-03	SHEET (POWER), INSULATING (7140/7142)	
S901	1-570-771-11	SWITCH	

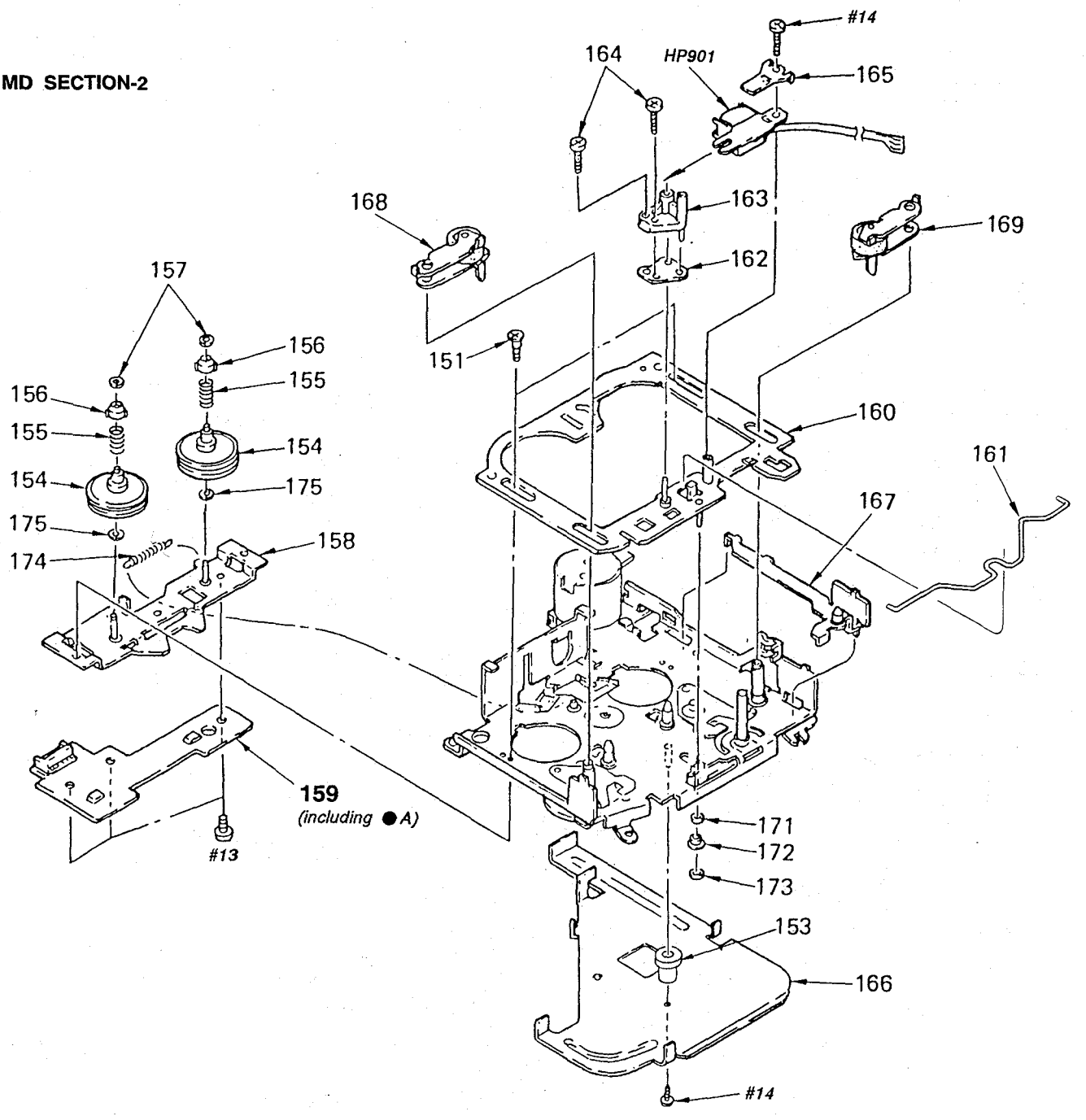
(3) MD SECTION-1



No.	Part No.	Description	Remarks
101	*3-344-103-21	HOUSING, CASSETTE	
102	*X-3344-121-1	ARM ASSY, SUCTION	
103	3-344-216-01	SPRING (SUCTION ARM), TENSION	
104	*X-3362-262-1	HANGER(F) ASSY, HOUSING	
105	3-344-113-01	SPRING	
106	*3-344-118-01	CATCHER	
107	A-3239-954-A	GEAR ASSY, DRIVING ARM	
108	*3-344-260-01	ARM, REVERSE	
109	*X-3344-142-2	BRACKET ASSY, MOTOR	
110	3-344-281-01	GEAR (A), DRIVING	
111	*1-638-563-11	SWITCH FLEXIBLE BOARD	
112	*1-638-562-11	SWITCH BOARD	
113	*X-3362-260-3	CHASSIS(F) ASSY, MCU	

No.	Part No.	Description	Remarks
114	*3-344-157-03	SHAFT, DRIVING GEAR (B)	
115	3-344-156-01	GEAR (B), DRIVING	
116	3-344-222-01	WASHER	
117	*3-344-112-13	BRACKET, HANGER	
118	*1-563-470-11	HOUSING, CONNECTOR 2P	
119	X-3344-119-1	GEAR ASSY, LOADING CAM	
121	3-344-108-01	GEAR (A), FRICTION	
123	X-3344-117-3	ARM ASSY, MODE	
M902	A-3239-956-B	MOTOR SUB ASSY, L	
S902	1-572-397-11	SWITCH, ROTARY SLIDE	

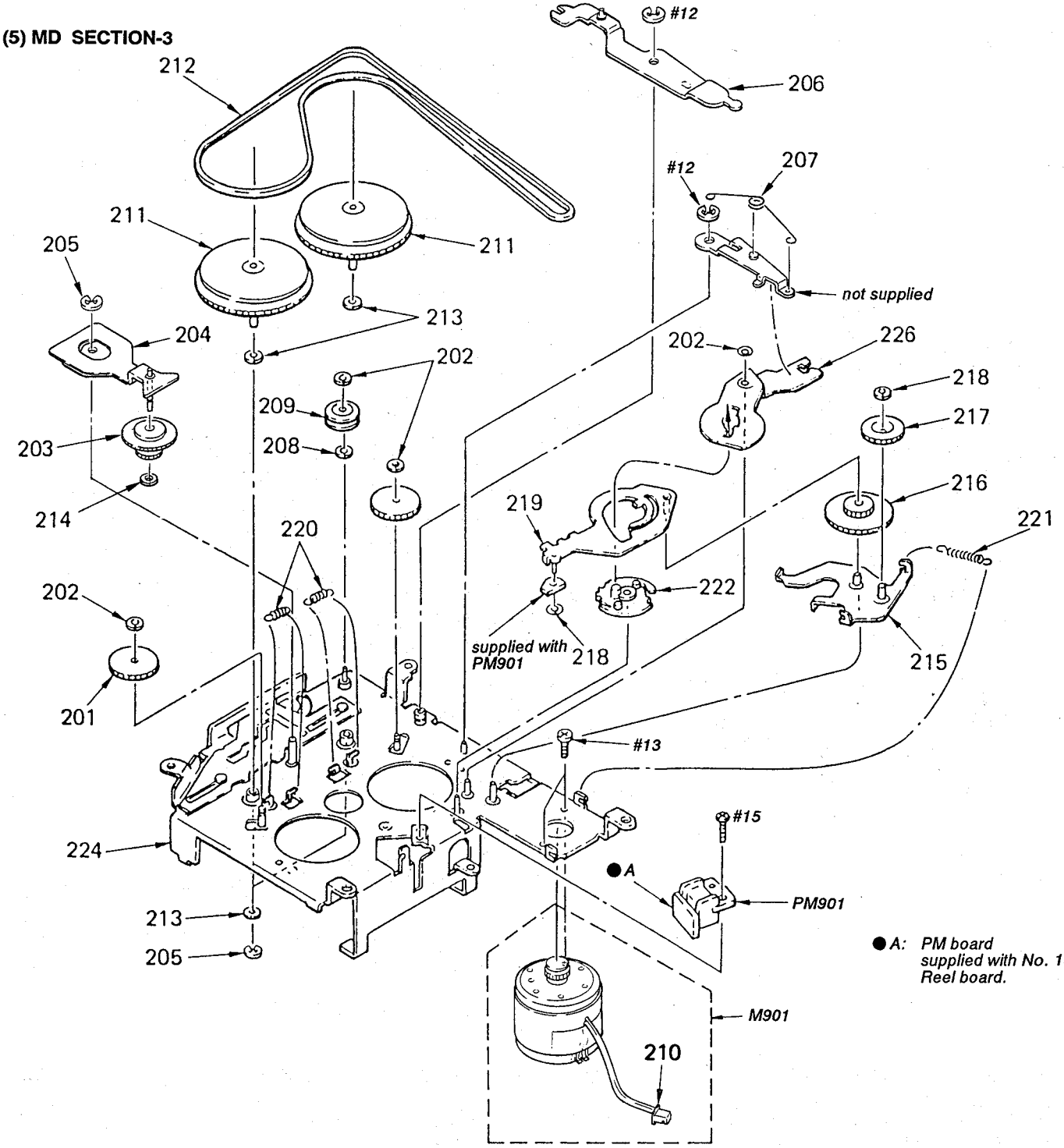
(4) MD SECTION-2



No.	Part No.	Description	Remarks
151	3-344-110-01	SCREW (HB), STEP	
153	3-344-251-01	RETAINER, MODE LEVER	
154	X-3362-213-1	TABLE(L) ASSY, REEL	
155	3-344-143-01	SPRING (BT), COMPRESSION	
156	3-365-725-01	CAP(F), REEL	
157	3-364-151-01	WASHER	
158	*X-3344-105-2	BRACKET ASSY, REEL TABLE	
159	*1-624-412-14	REEL BOARD	
160	*X-3362-261-1	BASE ASSY(R), HEAD	
161	3-363-909-01	SPRING (RATTLE), PINCH PRESS	
162	3-344-128-03	SEAM, DAH	
163	3-344-127-02	ARM, DAH	
164	3-364-122-01	SCREW, (M1.4X5.5), ADJ	

No.	Part No.	Description	Remarks
165	3-344-130-01	RETAINER, HEAD	
166	*3-344-220-03	COVER, MD	
167	*X-3344-118-3	LEVER ASSY, RVS CONVERSION	
168	X-3344-116-6	ARM (F) ASSY, PINCH	
169	X-3344-115-5	ARM (R) ASSY, PINCH	
171	3-344-117-01	ROLLER (B), H/B	
172	3-344-116-02	ROLLER (A), H/B	
173	3-344-222-01	WASHER	
174	3-344-217-02	SPRING (CAM LOCK LEVER), TENTION	
175	3-701-437-01	POLY-WASHER ϕ1.2	
HP901	1-543-726-11	HEAD, MAGNETIC (PLAYBACK)	

(5) MD SECTION-3



●A: PM board supplied with No. 159 Reel board.

No.	Part No.	Description	Remarks
201	3-344-104-01	GEAR, PLAY	
202	3-344-222-01	WASHER	
203	X-3344-102-6	GEAR ASSY, FR	
204	*X-3344-101-5	ARM ASSY, FR	
205	3-590-768-00	RING (A), E	
206	*X-3344-139-1	ARM ASSY, POWER	
207	3-344-279-01	SPRING, BUFFER	
208	3-701-436-01	WASHER, 1.6	
209	3-344-263-01	PULLEY (ASSY), MIDWAY	
210	*1-563-470-11	HOUSING, CONNECTOR 2P	
211	3-344-261-01	FLYWHEEL (M)	
212	3-344-115-01	BELT	
213	3-590-770-01	POLY-SLIDER (A)	
214	3-344-224-01	WASHER	
215	*X-3344-106-1	LEVER ASSY, RVS GEAR (B)	
216	3-344-146-01	GEAR (B), RVS	
217	3-344-147-01	GEAR (A), RVS	
218	3-344-223-01	WASHER	
219	X-3344-107-2	LEVER ASSY, CAM LOCK	
220	3-344-218-02	SPRING (PLAY ARM), TENSION	
221	3-344-215-01	SPRING, TENSION	
222	3-344-119-02	GEAR, RVS CAM	
224	*X-3363-049-1	CHASSIS (L2) ASSY, MECHANICAL	
226	*X-3344-114-2	LEVER ASSY, RVS	
M901	X-3344-136-1	MOTOR SUB ASSY, CAPSTAN	
PM901	1-454-461-12	SOLENOID, PLUNGER	

SECTION 6
ELECTRICAL PARTS LIST

KEY (B)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be antici- pated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When including parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
	* A-3273-359-A	KEY (B) BOARD, COMPLETE (7130)	
		**********	
	* A-3273-513-A	KEY (B) BOARD, COMPLETE (7600)	
		**********	
	* A-3273-354-A	KEY (B) BOARD, COMPLETE (7140/7142)	
		**********	
	1-808-773-11	DISPLAY PANEL, LIQUID CRYSTAL	
	3-349-440-11	SHEET (REFLECTOR)	
	* 3-357-086-01	PLATE (LCD), LIGHT GUIDE	
	* 3-357-087-01	HOLDER (LCD)	
	3-357-091-01	PLATE (LCD), GROUND	
	7-623-507-01	LUG, 2.6	
	8-749-900-36	IC BX1393 (7600)	
		< CAPACITOR >	
C791	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C792	1-162-637-11	CERAMIC CHIP 0.47uF 16V	
C793	1-162-637-11	CERAMIC CHIP 0.47uF 16V	
C794	1-162-637-11	CERAMIC CHIP 0.47uF 16V	
		< DIODE >	
D701	8-719-987-45	DIODE CL-155Y/PG-CD	
D702	8-719-987-45	DIODE CL-155Y/PG-CD	
D703	8-719-987-45	DIODE CL-155Y/PG-CD	
D704	8-719-987-45	DIODE CL-155Y/PG-CD	
D705	8-719-987-45	DIODE CL-155Y/PG-CD	
D706	8-719-987-45	DIODE CL-155Y/PG-CD	(7130/7140/7142)
D707	8-719-987-45	DIODE CL-155Y/PG-CD	
D708	8-719-987-45	DIODE CL-155Y/PG-CD	
D709	8-719-987-45	DIODE CL-155Y/PG-CD	
D710	8-719-987-45	DIODE CL-155Y/PG-CD	
D711	8-719-987-45	DIODE CL-155Y/PG-CD	
D712	8-719-987-45	DIODE CL-155Y/PG-CD	
D713	8-719-987-45	DIODE CL-155Y/PG-CD	
D714	8-719-987-45	DIODE CL-155Y/PG-CD	
D715	8-719-987-45	DIODE CL-155Y/PG-CD	
D716	8-719-987-45	DIODE CL-155Y/PG-CD	
D717	8-719-987-45	DIODE CL-155Y/PG-CD	
D718	8-719-987-45	DIODE CL-155Y/PG-CD	
D719	8-719-987-45	DIODE CL-155Y/PG-CD	
D720	8-719-987-45	DIODE CL-155Y/PG-CD	
D721	8-719-987-45	DIODE CL-155Y/PG-CD	(7130/7140/7142)
D722	8-719-987-45	DIODE CL-155Y/PG-CD	
D723	8-719-987-45	DIODE CL-155Y/PG-CD	(7140/7142/7600)
		< IC >	
IC701	8-759-821-44	IC LC-7582	
		< JUMPER RESISTOR >	
JR701	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR702	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< PILOT LAMP >	
PL701	1-518-648-11	LAMP, PILOT	
PL702	1-518-648-11	LAMP, PILOT	
PL703	1-518-646-11	LAMP, PILOT	
PL704	1-518-646-11	LAMP, PILOT	
		< TRANSISTOR >	
Q701	8-729-904-66	TRANSISTOR DTD113EK	
Q702	8-729-904-66	TRANSISTOR DTD113EK	
Q703	8-729-904-66	TRANSISTOR DTD113EK	
Q704	8-729-904-79	TRANSISTOR DTD113EK	
		< RESISTOR >	
R701	1-216-027-00	METAL CHIP 120 5% 1/10W	
R702	1-216-027-00	METAL CHIP 120 5% 1/10W	(7130/7140/7142)
R702	1-216-034-00	METAL CHIP 240 5% 1/10W	(7600)
R703	1-216-027-00	METAL CHIP 120 5% 1/10W	
R704	1-216-027-00	METAL CHIP 120 5% 1/10W	
R705	1-216-027-00	METAL CHIP 120 5% 1/10W	
R706	1-216-027-00	METAL CHIP 120 5% 1/10W	
R707	1-216-034-00	METAL CHIP 240 5% 1/10W	
R708	1-216-027-00	METAL CHIP 120 5% 1/10W	(7130/7140/7142)
R708	1-216-034-00	METAL CHIP 240 5% 1/10W	(7600)
R709	1-216-049-00	METAL CHIP 1K 5% 1/10W	(7130/7140/7142)
R709	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	(7600)
R710	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	

KEY (B) MAIN

Ref.No.	Part No.	Description	Remark
R711	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R713	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R751	1-216-027-00	METAL CHIP 120 5% 1/10W	
R752	1-216-027-00	METAL CHIP 120 5% 1/10W(7130/7140/7142)	
R752	1-216-034-00	METAL CHIP 240 5% 1/10W (7600)	
R753	1-216-027-00	METAL CHIP 120 5% 1/10W	
R754	1-216-027-00	METAL CHIP 120 5% 1/10W	
R755	1-216-027-00	METAL CHIP 120 5% 1/10W	
R756	1-216-027-00	METAL CHIP 120 5% 1/10W	
R757	1-216-034-00	METAL CHIP 240 5% 1/10W	
R758	1-216-027-00	METAL CHIP 120 5% 1/10W(7130/7140/7142)	
R758	1-216-034-00	METAL CHIP 240 5% 1/10W (7600)	
R759	1-216-049-00	METAL CHIP 1K 5% 1/10W(7130/7140/7142)	
R759	1-216-057-00	METAL CHIP 2.2K 5% 1/10W (7600)	
R791	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R792	1-216-091-00	METAL CHIP 56K 5% 1/10W	
		< SWITCH >	
SW701	1-554-813-41	SWITCH, KEY BOARD (M.SCAN/A.MEM) (7600)	
SW702	1-572-683-21	SWITCH, KEY BOARD (LOUD)	
SW703	1-572-683-21	SWITCH, KEY BOARD (LOCAL/METAL) (SENS/ □□)	
SW704	1-572-683-21	SWITCH, KEY BOARD (MONO/DOLBY)	
SW705	1-554-813-41	SWITCH, KEY BOARD (SELECT)	
SW706	1-572-683-21	SWITCH, KEY BOARD (DSPL)	
SW707	1-554-813-41	SWITCH, KEY BOARD (MUTE or SDK)	
SW708	1-554-813-41	SWITCH, KEY BOARD (OFF)	
SW709	1-554-813-41	SWITCH, KEY BOARD (SHUF/5)	
SW710	1-554-813-41	SWITCH, KEY BOARD (ATA/6)	
SW711	1-554-813-41	SWITCH, KEY BOARD (+)	
SW712	1-554-813-41	SWITCH, KEY BOARD (-)	
SW713	1-554-813-41	SWITCH, KEY BOARD (INTRO/1)	
SW714	1-554-813-41	SWITCH, KEY BOARD (REPEAT/2)	
SW715	1-554-813-41	SWITCH, KEY BOARD (BL.SKIP/3)	
SW716	1-554-813-41	SWITCH, KEY BOARD (D.SCAN/4)	
SW717	1-554-813-41	SWITCH, KEY BOARD (SEEK +/AMS ▶▶|)	
SW718	1-554-813-41	SWITCH, KEY BOARD (SEEK -/AMS |◀◀)	
SW719	1-554-813-41	SWITCH, KEY BOARD (MANU +) (DISC FF)	
SW720	1-554-813-41	SWITCH, KEY BOARD (MANU -) (DISC REW)	
SW721	1-554-813-41	SWITCH, KEY BOARD (TAPE/◀|▶)	
SW722	1-554-813-41	SWITCH, KEY BOARD (FM/AM or FM/MW/LW)	
SW724	1-554-813-41	SWITCH, KEY BOARD (▲) (7130/7140/7142)	
SW725	1-554-813-41	SWITCH, KEY BOARD (RESET) (7140/7142/7600)	

****

* A-3222-230-A MAIN BOARD, COMPLETE (7140:CND)
****
* A-3222-232-A MAIN BOARD, COMPLETE (7130)
****
* A-3222-275-A MAIN BOARD, COMPLETE (7600)
****

Ref.No.	Part No.	Description			Remark
	* A-3222-276-A	MAIN BOARD, COMPLETE (7140:AEP,E)			
		**********			
	* A-3222-284-A	MAIN BOARD, COMPLETE (7142)			
		**********			
	* 3-896-343-01	SHEET, INSULATING			
		< BATTERY >			
BT901	1-528-225-11	BATTERY, LITHIUM			
		< CAPACITOR >			
C1	1-124-229-00	ELECT	33uF	20%	10V
C2	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C3	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C4	1-126-161-11	ELECT	2.2uF	20%	35V
C5	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C6	1-130-473-00	MYLAR	0.0015uF	5%	50V
C7	1-126-288-11	ELECT	4.7uF	20%	16V
C8	1-126-301-11	ELECT	1uF	20%	50V
C9	1-124-464-11	ELECT	0.22uF	20%	50V
C10	1-124-584-00	ELECT	100uF	20%	10V
C11	1-126-153-11	ELECT	22uF	20%	6.3V
C12	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C13	1-163-157-00	FILM	0.022uF	5%	50V
C14	1-163-157-00	FILM	0.022uF	5%	50V
C15	1-126-301-11	ELECT	1uF	20%	50V
C16	1-136-155-00	FILM	0.015uF	5%	50V
C17	1-136-155-00	FILM	0.015uF	5%	50V
C18	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C19	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C20	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C21	1-163-157-00	FILM	0.022uF	5%	50V
C22	1-126-162-11	ELECT	3.3uF	20%	50V
C23	1-126-162-11	ELECT	3.3uF	20%	50V
C24	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C25	1-126-161-11	ELECT	2.2uF	20%	35V
C26	1-136-165-00	FILM	0.1uF	5%	50V
C27	1-124-584-00	ELECT	100uF	20%	10V
C28	1-126-157-11	ELECT	10uF	20%	16V
C29	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C30	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C31	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C32	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C33	1-124-229-00	ELECT	33uF	20%	10V
C35	1-124-242-00	ELECT	33uF	20%	25V
C36	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C38	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C39	1-126-157-11	ELECT	10uF	20%	16V
C42	1-124-229-00	ELECT	33uF	20%	10V
C51	1-163-117-00	CERAMIC CHIP	100PF	5%	50V

Ref.No.	Part No.	Description			Remark
C52	1-130-475-00	MYLAR	0.0022uF	5%	50V
C53	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C54	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C59	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C60	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C65	1-163-038-00	CERAMIC CHIP	0.1uF		25V
					(7130/7140:CND/7142/7600)
C90	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C101	1-126-288-11	ELECT	4.7uF	20%	16V
C102	1-126-288-11	ELECT	4.7uF 20% 16V		(7140:AEP,E/7600)
C103	1-130-467-00	MYLAR	470PF	5%	50V
					(7130/7140:CND/7600)
C103	1-130-473-00	MYLAR	0.0015uF 5% 50V		(7140:AEP,E)
C104	1-130-467-00	MYLAR	470PF	5%	50V
					(7130/7140:CND/7600)
C104	1-130-473-00	MYLAR	0.0015uF 5% 50V		(7140:AEP,E)
C105	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C106	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-136-153-00	FILM	0.01uF	5%	50V
C109	1-126-157-11	ELECT	10uF	20%	16V
C110	1-126-301-11	ELECT	1uF	20%	50V
C113	1-126-301-11	ELECT	1uF	20%	50V
C114	1-126-157-11	ELECT	10uF	20%	16V
C115	1-126-153-11	ELECT	22uF	20%	6.3V
C116	1-126-153-11	ELECT	22uF	20%	6.3V
C117	1-126-157-11	ELECT	10uF	20%	16V
C118	1-126-157-11	ELECT	10uF	20%	16V
C121	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C122	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
					(7140:AEP,E/7600)
C135	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C136	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C201	1-126-288-11	ELECT	4.7uF	20%	16V
C202	1-126-288-11	ELECT	4.7uF 20% 16V		(7140:AEP,E/7600)
C203	1-130-467-00	MYLAR	470PF	5%	50V
					(7130/7140:CND/7600)
C203	1-130-473-00	MYLAR	0.0015uF 5% 50V		(7140:AEP,E)
C204	1-130-467-00	MYLAR	470PF	5%	50V
					(7130/7140:CND/7600)
C205	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C205	1-130-473-00	MYLAR	0.0015uF	5%	50V
					(7140:AEP,E)
C206	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C207	1-126-154-11	ELECT	47uF	20%	6.3V
C208	1-136-153-00	FILM	0.01uF	5%	50V
C209	1-126-157-11	ELECT	10uF	20%	16V
C210	1-126-301-11	ELECT	1uF	20%	50V
C213	1-126-301-11	ELECT	1uF	20%	50V

Ref.No.	Part No.	Description			Remark
C214	1-126-157-11	ELECT	10uF	20%	16V
C215	1-126-153-11	ELECT	22uF	20%	6.3V
C216	1-126-153-11	ELECT	22uF	20%	6.3V
C217	1-126-157-11	ELECT	10uF	20%	16V
C218	1-126-157-11	ELECT	10uF	20%	16V
C221	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C222	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
					(7140:AEP,E/7600)
C235	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C236	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C301	1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C302	1-163-239-91	CERAMIC CHIP	33PF	5%	50V
C303	1-131-377-00	TANTALUM	10uF	10%	10V
C304	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C305	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C308	1-126-157-11	ELECT	10uF	20%	16V
C401	1-126-103-11	ELECT	470uF	20%	16V
C403	1-163-081-00	CERAMIC CHIP	0.22uF		25V
C404	1-126-933-11	ELECT	100uF	20%	16V
C405	1-163-081-00	CERAMIC CHIP	0.22uF		25V
C451	1-124-584-00	ELECT	100uF	20%	10V
C452	1-124-584-00	ELECT	100uF	20%	10V
C453	1-124-584-00	ELECT	100uF	20%	10V
C454	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C455	1-124-584-00	ELECT	100uF	20%	10V
C456	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C457	1-126-157-11	ELECT	10uF	20%	16V
C458	1-126-157-11	ELECT	10uF	20%	16V
C459	1-124-464-11	ELECT	0.22uF	20%	50V
C460	1-126-162-11	ELECT	3.3uF	20%	50V
C461	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C462	1-124-229-00	ELECT	33uF	20%	10V
C463	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C467	1-124-229-00	ELECT	33uF	20%	10V
C468	1-126-154-11	ELECT	47uF	20%	6.3V
C469	1-124-229-00	ELECT	33uF	20%	10V
C470	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C471	1-124-229-00	ELECT	33uF	20%	10V
C472	1-124-584-00	ELECT	100uF	20%	10V
C473	1-124-584-00	ELECT	100uF	20%	10V
C474	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C475	1-124-584-00	ELECT	100uF	20%	10V
C476	1-124-229-00	ELECT	33uF	20%	10V
C477	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C482	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C483	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C484	1-163-133-00	CERAMIC CHIP	470PF 5% 50V		(7130/7600)
C486	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C801	1-163-111-00	CERAMIC CHIP	56PH	5%	50V (7142)
C802	1-130-477-00	MYLAR	0.0033uF	5%	50V (7142)

MAIN

Ref.No.	Part No.	Description				Remark
C803	1-126-288-11	ELECT	4.7uF	20%	16V	(7142)
C804	1-136-175-00	FILM	0.068uF	5%	50V	(7142)
C805	1-136-175-00	FILM	0.068uF	5%	50V	(7142)
C806	1-124-463-11	ELECT	0.1uF	20%	50V	(7142)
C807	1-124-463-00	ELECT	0.1uF	20%	50V	(7142)
C808	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	(7142)
C809	1-124-229-00	ELECT	33uF	20%	10V	(7142)
C810	1-136-161-00	FILM	0.047uF	5%	50V	(7142)
C811	1-136-161-00	FILM	0.047uF	5%	50V	(7142)
C812	1-124-463-00	ELECT	0.1uF	20%	50V	(7142)
C813	1-163-157-00	FILM	0.022uF	5%	50V	(7142)
C814	1-136-175-00	FILM	0.068uF	5%	50V	(7142)
C815	1-136-175-00	FILM	0.068uF	5%	50V	(7142)
C901	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C902	1-163-081-00	CERAMIC CHIP	0.22uF		25V	
C903	1-163-081-00	CERAMIC CHIP	0.22uF		25V	
C904	1-163-081-00	CERAMIC CHIP	0.22uF		25V	
C905	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C906	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C907	1-163-081-00	CERAMIC CHIP	0.22uF		25V	
C908	1-124-229-00	ELECT	33uF	20%	10V	
C909	1-126-301-11	ELECT	1uF	20%	50V	
C910	1-124-229-00	ELECT	33uF	20%	10V	
C911	1-126-153-11	ELECT	22uF	20%	6.3V	
C912	1-126-153-11	ELECT	22uF	20%	6.3V	
C913	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C914	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C915	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C916	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C917	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C918	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C919	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	(7600)
C920	1-126-157-11	ELECT	10u	20%	16V	
C921	1-126-301-11	ELECT	1uF	20%	50V	(7140:CND/7142/7600)
C921	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	(7140:AEP,E)
C950	1-161-494-00	CERAMIC	0.022uF		25V	(7130/7140:CND/7142/7600)

< CONNECTOR >

CNP901 *	1-506-986-11	PIN, CONNECTOR (PC BOARD)	4P	
CNP904 *	1-506-984-11	PIN, CONNECTOR (PC BOARD)	2P	
CNP905 *	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P	(7130/7140/7142)
CNP905 *	1-506-988-11	PIN, CONNECTOR (PC BOARD)	6P	(7600)
CNP907 *	1-506-990-11	PIN, CONNECTOR (PC BOARD)	8P	
CNP908 *	1-566-011-11	PIN, CONNECTOR (PC BOARD)	14P	
CNP909 *	1-506-987-11	PIN, CONNECTOR (PC BOARD)	5P	
CNP910 *	1-506-984-31	PIN, CONNECTOR (PC BOARD)	2P	
CNP911 *	1-506-989-11	PIN, CONNECTOR (PC BOARD)	7P	(7600)

Ref.No.	Part No.	Description		Remark
CNP912 *	1-506-984-11	PIN, CONNECTOR (PC BOARD)	2P	(7130/7600)
CNP912 *	1-506-993-11	PIN, CONNECTOR (PC BOARD)	11P	(7140/7142)
CNP913 *	1-506-988-11	PIN, CONNECTOR (PC BOARD)	6P	(7130/7600)
CNP913 *	1-506-985-11	PIN, CONNECTOR (PC BOARD)	3P	(7140/7142)

< DIODE >

D1	8-719-976-31	DIODE	1SS332
D2	8-719-976-31	DIODE	1SS332
D3	8-719-977-24	DIODE	DTZ9.1B
D4	8-719-977-03	DIODE	DTZ5.6B
D5	8-719-977-24	DIODE	DTZ9.1B
D6	8-719-976-96	DIODE	DTZ4.7C
D7	8-719-971-18	DIODE	1SS318
D8	8-719-971-18	DIODE	1SS318
D52	8-719-976-31	DIODE	1SS332
D101	8-719-976-96	DIODE	DTZ4.7C
D201	8-719-976-96	DIODE	DTZ4.7C
D301	8-719-976-31	DIODE	1SS332
D302	8-719-976-31	DIODE	1SS332
D303	8-719-976-31	DIODE	1SS332
D304	8-719-976-31	DIODE	1SS332
D305	8-719-976-31	DIODE	1SS332
D306	8-719-976-31	DIODE	1SS332
D307	8-719-976-31	DIODE	1SS332
D308	8-719-400-18	DIODE	MA152WK
D309	8-719-976-31	DIODE	ISS332 (7600)
D310	8-719-976-31	DIODE	1SS332
D311	8-719-976-31	DIODE	1SS332
D401	8-719-976-31	DIODE	1SS332
D402	8-719-977-32	DIODE	DTZ11B
D403	8-719-976-31	DIODE	1SS332
D404	8-719-400-18	DIODE	MA152WK
D451	8-719-976-96	DIODE	DTZ4.7C
D452	8-719-976-31	DIODE	1SS332
D454	8-719-104-34	DIODE	1S2836
D801	8-719-976-31	DIODE	1S5332 (7142)
D901	8-719-977-32	DIODE	DTZ11B
D902	8-719-977-24	DIODE	DTZ9.1B
D903	8-719-977-24	DIODE	DTZ9.1B
D904	8-719-400-18	DIODE	MA152WK
D905	8-719-970-02	DIODE	1SR139-400
D906	8-719-977-07	DIODE	DTZ6.2B
D907	8-719-976-31	DIODE	1SS332
D908	8-719-104-34	DIODE	1S2836
D909	8-719-977-07	DIODE	DTZ6.2B
D910	8-719-977-24	DIODE	DTZ9.1B
D911	8-719-970-02	DIODE	1SR139-400 (7130/7140:CND/7142/7600)
D912	8-719-977-07	DIODE	DTZ6.2B (7600)
D913	8-719-977-07	DIODE	DTZ6.2B (7600)

Ref.No.	Part No.	Description	Remark
D914	8-719-977-07	DIODE DTZ6.2B (7600)	
D915	8-719-977-07	DIODE DTZ6.2B (7600)	
D916	8-719-977-07	DIODE DTZ6.2B (7600)	
D917	8-719-977-07	DIODE DTZ6.2B (7600)	
D918	8-719-977-07	DIODE DTZ6.2B (7600)	
D919	8-719-977-16	DIODE DTZ7.5B (7130/7140:CND/7142)	
D919	8-719-976-31	DIODE 1SS332 (7140:AEP,E)	
		< TUNER UNIT >	
FE1	1-465-405-11	TUNER UNIT (FM/AM)	
		< IC >	
IC1	1-808-516-11	IC NMX3S920	
IC2	8-759-821-43	IC LC7218M	
IC51	8-759-823-70	IC LA1060	
IC101	8-759-103-25	IC uPD4053BG (7600)	
IC102	8-759-631-00	IC M5280FP	
IC103	8-759-988-33	IC BA3430FS	
IC104	8-759-932-64	IC BU4052BF	
IC105	8-749-922-16	IC MV1108	
IC106	8-759-995-12	IC EV1200	
IC107	8-759-988-36	IC BA14741F	
IC301	8-759-154-49	IC uPD75516GF-274-3B9 (7130/7140:CND/7142/7600)	
IC301	8-759-150-68	IC uPD75516GF-133-3B9 (7140:AEP,E)	
IC302	8-759-932-86	IC BU4081BF	
IC401	8-759-631-01	IC M54644BL	
IC801	8-759-998-24	IC TDA1579T-T (7142)	
IC802	80759-909-71	IC BA4558F-T1 (7142)	
		< JUMPER RESISTOR >	
JR121	1-216-295-00	METAL CHIP 0 5% 1/10W (7140)	
JR122	1-216-295-00	METAL CHIP 0 5% 1/10W (7140)	
JR221	1-216-295-00	METAL CHIP 0 5% 1/10W (7140)	
JR222	1-216-295-00	METAL CHIP 0 5% 1/10W (7140)	
JR309	1-216-295-00	METAL CHIP 0 5% 1/10W (7140:AEP,E)	
JR901	1-216-295-00	METAL CHIP 0 5% 1/10W (7130/7140)	
JR902	1-216-295-00	METAL CHIP 0 5% 1/10W (7130/7140)	
JR903	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR906	1-216-295-00	METAL CHIP 0 5% 1/10W (7130/7140)	
JR907	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR908	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR909	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR910	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR931	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR932	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR933	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR934	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR935	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR951	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR954	1-216-295-00	METAL CHIP 0 5% 1/10W	

Ref.No.	Part No.	Description	Remark
		< COIL >	
L1	1-410-970-11	INDUCTOR 6.8uH	
L2	1-410-973-11	INDUCTOR 22uH	
L3	1-410-973-11	INDUCTOR 22uH	
L51	1-410-977-11	INDUCTOR 100uH	
L301	1-410-973-11	INDUCTOR 22uH	
L302	1-410-973-11	INDUCTOR 22uH	
L801	1-424-036-11	COIL (FILTER) (7142)	
		< TRANSISTOR >	
Q1	8-729-100-66	TRANSISTOR 2SC1623	
Q3	8-729-100-66	TRANSISTOR 2SC1623	
Q4	8-729-100-66	TRANSISTOR 2SC1623	
Q5	8-729-100-66	TRANSISTOR 2SC1623	
Q6	8-729-100-66	TRANSISTOR 2SC1623	
Q7	8-729-901-04	TRANSISTOR DTA114EK	
Q8	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q9	8-729-106-60	TRANSISTOR 2SB1115A	
Q10	8-729-106-60	TRANSISTOR 2SB1115A	
Q11	8-729-901-01	TRANSISTOR DTC144EK	
Q12	8-729-901-04	TRANSISTOR DTA114EK	
Q13	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q14	8-729-920-21	TRANSISTOR DTC314TKH04	
Q15	8-729-901-01	TRANSISTOR DTC144EK	
Q16	8-729-901-04	TRANSISTOR DTA114EK	
Q51	8-729-100-66	TRANSISTOR 2SC1623	
Q54	8-729-100-66	TRANSISTOR 2SC1623	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-901-06	TRANSISTOR DTA144EK	
Q302	8-729-901-01	TRANSISTOR DTC144EK	
Q303	8-729-901-01	TRANSISTOR DTC144EK	
Q304	8-729-901-01	TRANSISTOR DTC144EK	
Q305	8-729-900-53	TRANSISTOR DTC114EK	
Q306	8-729-901-06	TRANSISTOR DTA144EK (7600)	
Q401	8-729-106-60	TRANSISTOR 2SB1115A	
Q402	8-729-900-53	TRANSISTOR DTC114EK	
Q403	8-729-900-53	TRANSISTOR DTC114EK	
Q404	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q405	8-729-901-04	TRANSISTOR DTA114EK	
Q406	8-729-900-53	TRANSISTOR DTC114EK	
Q451	8-729-920-21	TRANSISTOR DTC314TKH04 (7600)	
Q452	8-729-920-21	TRANSISTOR DTC314TKH04 (7600)	
Q901	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q902	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q903	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q906	8-729-901-04	TRANSISTOR DTA114EK	
Q907	8-729-901-01	TRANSISTOR DTC144EK	

MAIN

Ref. No.	Part No.	Description	Remark
Q908	8-729-901-01	TRANSISTOR DTC144EK	
Q909	8-729-901-01	TRANSISTOR DTC144EK	
Q910	8-729-901-04	TRANSISTOR DTA114EK	
Q911	8-729-901-01	TRANSISTOR DTC144EK	
Q912	8-729-100-66	TRANSISTOR 2SC1623	
Q913	8-729-100-66	TRANSISTOR 2SC1623	
Q914	8-729-901-01	TRANSISTOR DTC144EK	
Q915	8-729-100-66	TRANSISTOR 2SC1623	
Q916	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q917	8-729-216-22	TRANSISTOR 2SA1162	
Q918	8-729-106-60	TRANSISTOR 2SB1115A	
Q919	8-729-901-01	TRANSISTOR DTC144EK	
Q920	8-729-901-04	TRANSISTOR DTA114EK	
Q921	8-729-901-04	TRANSISTOR DTA114EK	
Q922	8-729-901-01	TRANSISTOR DTC144EK	
Q923	8-729-216-22	TRANSISTOR 2SA1162	
Q924	8-729-216-22	TRANSISTOR 2SA1162	
Q925	8-729-106-60	TRANSISTOR 2SB1115A	
Q926	8-729-900-53	TRANSISTOR DTC114EK	
		< RESISTOR >	
R1	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R2	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R3	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R4	1-216-045-00	METAL CHIP 680 5% 1/10W	
R5	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R6	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R7	1-216-001-00	METAL CHIP 10 5% 1/10W	
R8	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R9	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R10	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R11	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R12	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R13	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R14	1-216-085-00	METAL CHIP 33K 5% 1/10W (7130/7140:CND/7600)	
R14	1-216-079-00	METAL CHIP 18K 5% 1/10W(7140:AEP,E)	
R14	1-216-069-91	METAL CHIP 6.8K 5% 1/10W (7142)	
R15	1-216-085-00	METAL CHIP 33K 5% 1/10W (7130/7140:CND/7600)	
R15	1-216-079-00	METAL CHIP 18K 5% 1/10W(7140:AEP,E)	
R15	1-216-069-91	METAL CHIP 6.8K 5% 1/10W (7142)	
R16	1-216-099-00	METAL CHIP 120K 5% 1/10W (7130/7140:CND/7600)	
R16	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R16	1-216-091-91	METAL CHIP 56K 5% 1/10W (7142)	
R17	1-216-099-00	METAL CHIP 120K 5% 1/10W(7130/7140:CND)	
R17	1-216-093-00	METAL CHIP 68K 5% 1/10W(7140:AEP,E)	
R17	1-216-091-91	METAL CHIP 56K 5% 1/10W (7142)	
R20	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R21	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R22	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R23	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R24	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R25	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R26	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R27	1-216-043-00	METAL CHIP 560 5% 1/10W	
R28	1-216-045-00	METAL CHIP 680 5% 1/10W	
R30	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R31	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R32	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
R33	1-216-059-00	METAL CHIP 2.7K 5% 1/10W	
R34	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R35	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R36	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R37	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R38	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R40	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R41	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R51	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R52	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R53	1-216-748-11	METAL CHIP 39K 1% 1/10W	
R54	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R55	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R56	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R57	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R59	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R62	1-216-089-00	METAL CHIP 47K 5% 1/10W(7140:AEP,E)	
R63	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R64	1-216-121-00	METAL CHIP 1M 5% 1/10W	
R65	1-216-089-00	METAL CHIP 47K 5% 1/10W(7140:AEP,E)	
R66	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R67	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R68	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (7130/7140:CND/7600)	
R69	1-216-095-00	METAL CHIP 82K 5% 1/10W	
R70	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R71	1-216-057-00	METAL CHIP 2.2K 5% 1/10W(7140:AEP,E)	
R75	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R76	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R101	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R102	1-216-081-00	METAL CHIP 22K 5% 1/10W (7600)	
R103	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R104	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R105	1-216-033-00	METAL CHIP 220 5% 1/10W	
R106	1-216-109-00	METAL CHIP 330K 5% 1/10W	
R107	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R108	1-216-079-00	METAL CHIP 18K 5% 1/10W	
R109	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R112	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R113	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R114	1-216-077-00	METAL CHIP 15K 5% 1/10W	

Ref. No.	Part No.	Description				Remark
R115	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R116	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R118	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R119	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7140/7142)
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7140/7142)
R121	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	(7130/7600)
R122	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	(7130/7600)
R125	1-216-105-00	METAL CHIP	220K	5%	1/10W	(7130/7600)
R126	1-216-105-00	METAL CHIP	220K	5%	1/10W	(7130/7600)
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R202	1-216-081-00	METAL CHIP	22K	5%	1/10W	(7600)
R203	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R204	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R205	1-216-033-00	METAL CHIP	220	5%	1/10W	
R206	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R207	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R208	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R212	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R213	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R214	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R215	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R216	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R219	1-216-041-00	METAL CHIP	470	5%	1/10W	(7130/7600)
R219	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7140/7142)
R220	1-216-041-00	METAL CHIP	470	5%	1/10W	(7130/7600)
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7140/7142)
R221	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	(7130/7600)
R222	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	(7130/7600)
R225	1-216-105-00	METAL CHIP	220K	5%	1/10W	(7130/7600)
R226	1-216-105-00	METAL CHIP	220K	5%	1/10W	(7130/7600)
R301	1-216-097-00	METAL CHIP	100K	5%	1/10W	(7600)
R302	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(7600)
R305	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R306	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R307	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R311	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R313	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R314	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R315	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R316	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(7600)
R317	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(7600)
R318	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(7600)
R319	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R320	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R321	1-216-105-00	METAL CHIP	220K	5%	1/10W	(7140/7142/7600)

Ref. No.	Part No.	Description				Remark
R324	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R325	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R326	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R327	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R328	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R329	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R330	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R331	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R332	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R333	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R334	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R335	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R337	1-216-089-00	METAL CHIP	47K	5%	1/10W	(7130/7140:CND/7142/7600)
R338	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R339	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R340	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R341	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R342	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R343	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R344	1-216-748-11	METAL CHIP	39K	1%	1/10W	
R345	1-216-748-11	METAL CHIP	39K	1%	1/10W	
R346	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R347	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R347	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R401	1-216-194-00	METAL CHIP	680	5%	1/8W	
R402	1-216-194-00	METAL CHIP	680	5%	1/8W	
R403	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R404	1-216-017-00	METAL CHIP	47	5%	1/10W	
R405	1-216-194-00	METAL CHIP	680	5%	1/8W	
R406	1-216-194-00	METAL CHIP	680	5%	1/8W	
R407	1-216-194-00	METAL CHIP	680	5%	1/8W	
R408	1-216-194-00	METAL CHIP	680	5%	1/8W	
R409	1-216-041-00	METAL CHIP	470	5%	1/10W	
R410	1-216-146-00	METAL GLAZE	6.8	5%	1/8W	
R411	1-216-146-00	METAL GLAZE	6.8	5%	1/8W	
R412	1-216-146-00	METAL GLAZE	6.8	5%	1/8W	
R413	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R414	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R451	1-216-041-00	METAL CHIP	470	5%	1/10W	
R451	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R452	1-216-041-00	METAL CHIP	470	5%	1/10W	(7140:AEP,E/7600)
R453	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R454	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R455	1-216-001-00	METAL CHIP	10	5%	1/10W	
R456	1-216-025-00	METAL CHIP	100	5%	1/10W	
R457	1-216-021-00	METAL CHIP	68	5%	1/10W	
R458	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R459	1-216-073-00	METAL CHIP	10K	5%	1/10W	

MAIN

Ref.No.	Part No.	Description				Remark
R460	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R461	1-216-001-00	METAL CHIP	10	5%	1/10W	
R462	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R463	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R464	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R465	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R466	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R467	1-216-001-00	METAL CHIP	10	5%	1/10W	
R468	1-216-025-00	METAL CHIP	100	5%	1/10W	
R469	1-216-001-00	METAL CHIP	10	5%	1/10W	
R470	1-216-001-00	METAL CHIP	10	5%	1/10W	
R471	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R472	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R473	1-216-001-00	METAL CHIP	10	5%	1/10W	
R667	1-216-089-00	METAL CHIP	47K	5%	1/10W	(7140:AEP,E)
R801	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(7142)
R802	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	(7142)
R803	1-216-097-00	METAL GLAZE	100K	5%	1/10W	(7142)
R804	1-216-041-00	METAL GLAZE	470	5%	1/10W	(7142)
R805	1-216-117-00	METAL GLAZE	680K	5%	1/10W	(7142)
R806	1-216-105-00	METAL GLAZE	220K	5%	1/10W	(7142)
R807	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(7142)
R808	1-216-116-00	METAL GLAZE	620K	5%	1/10W	(7142)
R809	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(7142)
R810	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(7142)
R811	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	(7142)
R812	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	(7142)
R813	1-216-041-00	METAL GLAZE	470	5%	1/10W	(7142)
R814	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(7142)
R815	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(7142)
R816	1-216-073-00	METAL GLAZE	10K	5%	1/10W	(7142)
R817	1-216-075-00	METAL GLAZE	12K	5%	1/10W	(7142)
R818	1-216-106-00	METAL GLAZE	240K	5%	1/10W	(7142)
R819	1-216-085-00	METAL GLAZE	33K	5%	1/10W	(7142)
R820	1-216-095-00	METAL GLAZE	82K	5%	1/10W	(7142)
R821	1-216-093-00	METAL GLAZE	68K	5%	1/10W	(7142)
R822	1-216-089-00	METAL GLAZE	47K	5%	1/10W	(7142)
R901	1-216-035-00	METAL CHIP	270	5%	1/10W	
R902	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R903	1-216-035-00	METAL CHIP	270	5%	1/10W	
R904	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R905	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R907	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R908	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R909	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R911	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R912	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R913	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R914	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R915	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R916	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R917	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R918	1-216-033-00	METAL CHIP	220	5%	1/10W	
R919	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R920	1-216-041-00	METAL CHIP	470	5%	1/10W	
R921	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R922	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R923	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R924	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R925	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R926	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R927	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R928	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R929	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R930	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R931	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R932	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R933	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R934	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R935	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R936	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R937	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R938	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R939	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R940	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R941	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R942	1-216-049-00	METAL CHIP	1K	5%	1/10W	(7600)
R944	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R945	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(7140:CND/7142/7600)
R946	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R947	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R948	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R949	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R950	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R951	1-216-134-00	METAL CHIP	2.2	5%	1/8W	

< VARIABLE RESISTOR >

RV1	1-230-523-11	RES, ADJ, METAL 10K
RV2	1-230-527-11	RES, ADJ, METAL 100K
RV101	1-238-167-11	RES, ADJ, CARBON 22K
RV102	1-238-167-11	RES, ADJ, CARBON 22K
RV201	1-238-167-11	RES, ADJ, CARBON 22K
RV202	1-238-167-11	RES, ADJ, CARBON 22K
RV801	1-230-530-11	RES, ADJ, METAL GLAZE 100 (7142)

< SWITCH >

S1	1-553-510-00	SWITCH, SLIDE
S301	1-553-510-00	SWITCH, SLIDE (9KHz/10KHz) (7140:AEP,E)
S302	1-553-510-00	SWITCH, SLIDE

Ref.No.	Part No.	Description			Remark
		< VIBRATOR >			
X1	1-567-250-11	OSCILLATOR, CERAMIC			
X2	1-567-848-11	VIBRATOR, CRYSTAL			
X301	1-567-821-11	VIBRATOR, CRYSTAL			
**********					
*	A-3273-351-A	POWER (B) BOARD, COMPLETE (7140/7142)			
		**********			
		< CAPACITOR >			
C501	1-126-161-11	ELECT	2.2uF	20%	35V
C502	1-128-054-11	ELECT	22uF	20%	10V
C503	1-136-166-00	FILM	0.12uF	5%	50V
C504	1-136-166-00	FILM	0.12uF	5%	50V
C505	1-163-275-91	CERAMIC CHIP	0.001uF	5%	50V
C551	1-126-161-11	ELECT	2.2uF	20%	35V
C552	1-128-054-11	ELECT	22uF	20%	10V
C553	1-136-166-00	FILM	0.12uF	5%	50V
C554	1-136-166-00	FILM	0.12uF	5%	50V
C555	1-163-275-91	CERAMIC CHIP	0.001uF	5%	50V
C591	1-128-268-11	ELECT	3300uF	20%	16V
C592	1-136-165-00	FILM	0.1uF	5%	50V
C593	1-163-243-91	CERAMIC CHIP	47PF	5%	50V
C595	1-126-923-11	ELECT	220uF	20%	10V
C596	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C601	1-126-161-11	ELECT	2.2uF	20%	35V
C602	1-128-054-11	ELECT	22uF	20%	10V
C603	1-136-166-00	FILM	0.12uF	5%	50V
C604	1-136-166-00	FILM	0.12uF	5%	50V
C605	1-163-275-91	CERAMIC CHIP	0.001uF	5%	50V
C651	1-126-161-11	ELECT	2.2uF	20%	35V
C652	1-128-054-11	ELECT	22uF	20%	10V
C653	1-136-166-00	FILM	0.12uF	5%	50V
C654	1-136-166-00	FILM	0.12uF	5%	50V
C655	1-163-275-91	CERAMIC CHIP	0.001uF	5%	50V
C695	1-126-923-11	ELECT	220uF	20%	10V
C696	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
		< CONNECTOR >			
CNP921 *	1-564-511-11	PLUG, CONNECTOR 8P			
CNP922 *	1-566-693-11	PIN, CONNECTOR 2P			
		< DIODE >			
D501	8-719-981-50	DIODE	RB-100A		
D502	8-719-981-50	DIODE	RB-100A		
D551	8-719-981-50	DIODE	RB-100A		
D552	8-719-981-50	DIODE	RB-100A		
D591	8-719-989-62	DIODE	RL254		

Ref.No.	Part No.	Description			Remark
D601	8-719-981-50	DIODE	RB-100A		
D602	8-719-981-50	DIODE	RB-100A		
D651	8-719-981-50	DIODE	RB-100A		
D652	8-719-981-50	DIODE	RB-100A		
		< IC >			
IC501	8-759-243-27	IC	TA8215H		
IC601	8-759-243-27	IC	TA8215H		
		< RESISTOR >			
R501	1-216-083-00	METAL CHIP	27K	5%	1/10W
R502	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R503	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R504	1-216-041-00	METAL CHIP	470	5%	1/10W
R507	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R508	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R551	1-216-083-00	METAL CHIP	27K	5%	1/10W
R552	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R553	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R554	1-216-041-00	METAL CHIP	470	5%	1/10W
R557	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R558	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R591	1-216-073-00	METAL CHIP	10K	5%	1/10W
R592	1-216-097-00	METAL CHIP	100K	5%	1/10W
R601	1-216-083-00	METAL CHIP	27K	5%	1/10W
R602	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R603	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R604	1-216-041-00	METAL CHIP	470	5%	1/10W
R607	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R608	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R651	1-216-083-00	METAL CHIP	27K	5%	1/10W
R652	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R653	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R654	1-216-041-00	METAL CHIP	470	5%	1/10W
R657	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R658	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R692	1-216-097-00	METAL CHIP	100K	5%	1/10W
**********					
		MISCELLANEOUS			
		**********			
62	1-590-775-11	CORD (WITH CONNECTOR) (7140)			
62	1-590-777-11	CORD (WITH CONNECTOR) (7130)			
62	1-590-979-11	CORD (WITH CONNECTOR) (7600)			
F901	1-532-508-11	FUSE 8A			
F902	1-532-409-11	FUSE 0.315A			
S901	1-570-771-11	SWITCH			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******	
	1-465-814-11	REMOTE COMMANDER (7600)	
	1-590-774-12	CORD (WITH CONNECTOR) (7140:CND)	
	1-590-774-21	CORD (WITH CONNECTOR) (7140:AEP, E/7142)	
	1-590-775-11	CORD (WITH CONNECTOR) (7140/7142)	
	1-590-776-11	CORD (WITH CONNECTOR) (7130)	
	1-590-978-11	CORD (WITH CONNECTOR) (7600)	
	3-336-617-01	BAG, PROTECTION	
*	3-368-334-01	CUSHION (UPPER) (L&R)	
*	3-368-335-01	CUSHION (LOWER)	
*	3-369-549-02	INDIVIDUAL CARTON (7130)	
*	3-369-551-02	INDIVIDUAL CARTON (7140)	
*	3-370-198-01	INDIVIDUAL CARTON (7600)	
	3-753-522-21	MANUAL, INSTRUCTION (7130)	(ENGLISH, FRENCH)
	3-753-523-21	MANUAL, INSTRUCTION (7130)	(ENGLISH, FRENCH)
	3-753-524-11	MANUAL, INSTRUCTION (7140:AEP, E)	(ENGLISH, FRENCH, SPANISH, CHINESE)
	3-753-524-31	MANUAL, INSTRUCTION (7140:CND)	(ENGLISH, FRENCH)
	3-753-524-41	MANUAL, INSTRUCTION (7140:AEP)	(DUTCH, SWEDISH, ITALIAN, PORTUGUESE)
	3-753-524-51	INSTALLATION/CONNECTIONS (7142)	(ENGLISH, FRENCH, ITALIAN, GERMAN)
	3-753-524-61	MANUAL, INSTRUCTION (7140:AEP)	(FINNISH, DANISH)
	3-753-525-11	MANUAL, INSTRUCTION (7140:AEP, E)	(ENGLISH, FRENCH, SPANISH, CHINESE)
	3-753-525-31	MANUAL, INSTRUCTION (7140:CND)	(ENGLISH, FRENCH)
	3-753-525-41	MANUAL, INSTRUCTION (7140:AEP)	(DUTCH, SWEDISH, ITALIAN, PORTUGUESE)
	3-753-525-31	MANUAL, INSTRUCTION (7142)	(ENGLISH, FRENCH, ITALIAN, GERMAN)
	3-753-525-61	MANUAL, INSTRUCTION (7140:AEP)	(FINNISH, DANISH)
	3-753-633-21	MANUAL, INSTRUCTION (7600)	(ENGLISH, FRENCH)
	3-753-634-21	MANUAL, INSTRUCTION (7600)	(ENGLISH, FRENCH)

****

HARDWARE LIST

#1	7-621-770-87	SCREW +PTT 2.6X5 (S)	
#2	7-627-553-38	SCREW, PRECISION +P 2X3	
#3	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
#4	7-621-773-86	SCREW +PTT 2.6X4 (S)	
#5	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#6	7-623-507-01	LUG, 2.6	
#7	7-682-952-01	SCREW +PSW 3X16	
#8	7-621-283-00	SCREW +P 2X5	
#9	7-685-751-01	SCREW +PTT 3X6	
#10	7-621-773-87	SCREW +PTT 2.6X10 (S)	
#11	7-682-652-09	SCREW +PSW 3X16	
#12	7-624-104-04	STOP RING 2.0 TYPE-E	
#13	7-627-554-07	SCREW, PRECISION +P 2X2.2	
#14	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
#15	7-627-850-67	SCREW, PRECISION +P 1.4X4	
#16	7-628-253-05	SCREW +PS 2X4	
#17	7-621-259-25	SCREW +P 2.6X4	
#18	7-621-255-65	SCREW +P 2X10	
#19	7-621-255-25	SCREW +P 2X4	

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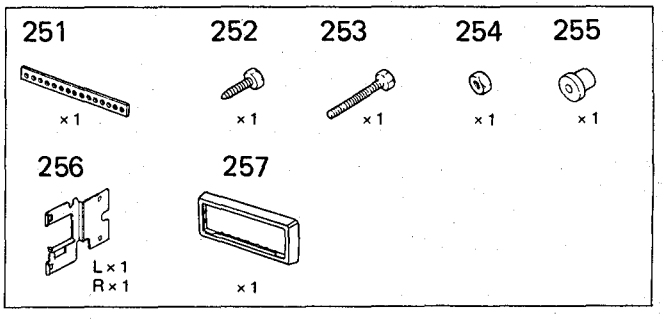
• MOUNTING HARDWARE



Ref. No.	Part No.	Description	Remark
251	3-310-655-01	SUPPORT (ND), FITTING	
252	3-302-126-01	SCREW, TAPPING (DIA. 5X20)	
253	7-682-583-04	SCREW, +P 5X40	
254	7-684-025-04	N 5, TYPE 2	
255	3-349-410-01	BUSHING	
256 *	3-349-456-01	BRACKET (FIX, LEFT)	
256 *	3-349-457-01	BRACKET (FIX, RIGHT)	
257	3-369-392-01	FRAME, ORNAMENTAL	

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